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Queen's University

KINGSTON, CANADA



INCORPORATED BY ROYAL CHARTER IN 1841

CALENDAR OF THE FACULTY OF MEDICINE

EIGHTY-EIGHTH SESSION

1940-41

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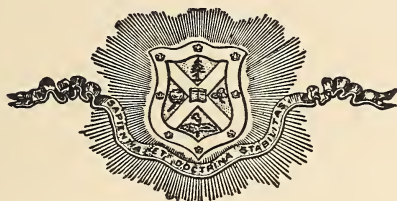
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CALENDAR OF THE FACULTY OF MEDICINE

EIGHTY-EIGHTH SESSION
1940-41

PRINTED FOR THE UNIVERSITY BY THE JACKSON PRESS
KINGSTON
1940

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1940

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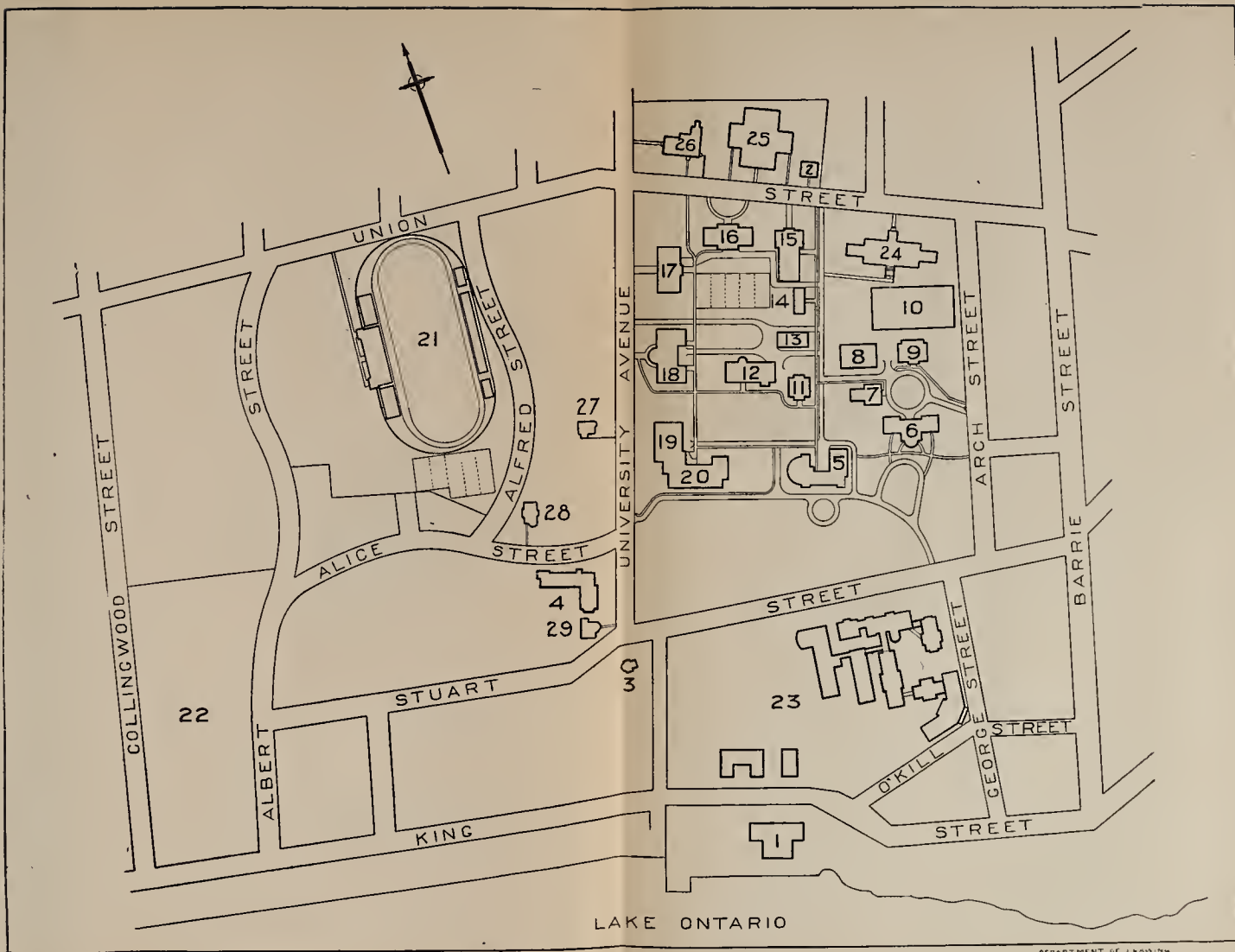
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BUILDINGS OF QUEEN'S UNIVERSITY

PLAN OF QUEEN'S UNIVERSITY GROUNDS

- | | | |
|-----------------------------------|----------------------------|---|
| 1. Central Heating Plant. | 11. Carruthers Hall. | 21. Richardson Stadium. |
| 2. Commerce Building. | 12. Fleming Hall. | 22. Leonard Field. |
| 3. Observatory. | 13. Storehouse. | 23. Kingston General Hospital
and Richardson Laboratory. |
| 4. Ban Righ Hall. | 14. Mechanical Laboratory. | 24. Miller Hall. |
| 5. Theological Hall. | 15. Nicol Hall. | 25. Gymnasium. |
| 6. Principal's Residence. | 16. Gordon Hall. | 26. Students' Memorial Union. |
| 7. Old Medical Building. | 17. Douglas Library. | 27. Gordon House. |
| 8. Hydraulics Laboratory. | 18. Ontario Hall. | 28. Goodwin House. |
| 9. Medical Laboratories Building. | 19. Grant Hall. | 29. Macdonnell House. |
| 10. Jock Harty Arena. | 20. Kingston Hall. | |

ACADEMIC YEAR

EIGHTH-EIGHTH SESSION

1940

July 15, Monday—Last day for filing notice (accompanied by fee) of intention to write supplemental examinations.

Sept. 23, Monday—Registration begins.

Sept. 25, Wednesday—Last day for registration without payment of late registration fee.

Sept. 26, Thursday—Classes open at 9 a.m.

Oct. 5, Saturday—Last day for registration.

Dec. 21, Saturday—Christmas holidays begin at 11 a.m.

1941

Jan. 6, Monday—Classes reopen at 9 a.m. Last day for paying second instalment of fees without penalty.

Mar. 15, Saturday—Last day for receiving applications for degrees.

Apr. 5, Saturday—Lister Day.

Apr. 10, Thursday—Easter Recess begins at 5 p.m.

Apr. 16, Wednesday—Classes reopen at 9 a.m.

May 2, Friday—Classes close at 4 p.m.

May 3, Saturday—Final examinations begin.

May 16, Friday—University Convocation for Conferring Degrees upon graduates of the Faculties of Arts, Science, and Medicine. (This date is provisional.)

TIME TABLE FOR FIRST YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Physics lect.	Chemistry lect.	Physics lect.	Chemistry lect.	Physics lect.	Chemistry lect.
10-11	English	Physics lab. B	English	Physics lab. A	English	Physical Training
11-12	Biology	Physics lab. B	Biology	Physics lab. A	Biology	
1-2	Chemistry lab.	Biology lab.		Biology lab.	Chemistry lab.	
2-3	Chemistry lab.	Biology lab.		Biology lab.	Chemistry lab.	
3-4	Chemistry lab.	Biology lab.	Physical Training	Biology lab.	Chemistry lab.	
4-5			First Aid			

TIME TABLE FOR SECOND YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Chemistry	Chemistry B 9-12	Chemistry	Chemistry A 9-12	Anatomy	Embryology
10-11	Anatomy	Histology A 10-12	Physics B 10-12	Histology B 10-12	Chemistry	Physics A 10-12
11-12	Physics		Embryology A 10-12		Physics	Embryology B 10-12
1-2	Anatomy	Anatomy	Histology	Anatomy	Anatomy	
2-3	Anatomy	Anatomy		Anatomy	Anatomy	
3-4	Anatomy	Anatomy		Anatomy	Anatomy	
4-5	Psychology	Psychology		Anatomy	Anatomy	

TIME TABLE FOR THIRD YEAR

-7-

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Bacteriology	Anatomy	Bacteriology	Bacteriology	Physiology	Anatomy
10-11	Physiology	Anatomy	Bacteriology A Anatomy B	Bacteriology A Anatomy B	Anatomy A Bacteriology B	Anatomy
11-12	Anatomy	Anatomy	Bacteriology A Anatomy B	Bacteriology A Anatomy B	Anatomy A Bacteriology B	Anatomy
1-2	Bacteriology A Physiology B	Physiology A Bacteriology B	Anatomy A Bacteriology B	Biochemistry	Biochemistry	
2-3	Bacteriology A Physiology B	Physiology A Bacteriology B	Anatomy A Bacteriology B	Biochemistry	Biochemistry	
3-4	Physiology B	Physiology A	Physiology	Biochemistry	Biochemistry	

TIME TABLE FOR FOURTH YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Clin. Medicine	Pathology	Pathology	Surgery
10-11	Surgery	Clin. Microscopy	Clin. Medicine	Surgery	Surgery	Anatomy
11-12	Surgery	Pharmacology	Clin. Medicine	Medicine	Pharmacology	Conference
1-2	Medicine	Medicine	Gynaecology	Pharmacology	Medicine	
2-3	History of Medicine	Prev. Medicine A Clin. Microscopy B	Clin. Surgery	Pharmacology	Clin. Microscopy A Prev. Medicine B	
3-4	Pharmacology	Prev. Medicine A Clin. Microscopy B	Clin. Surgery	Pharmacology	Clin. Microscopy A Prev. Medicine B	
4-5	App. Anatomy	Prev. Medicine A Clin. Microscopy B	Clin. Surgery	Pharmacology	Clin. Microscopy A Prev. Medicine B	

TIME TABLE FOR FIFTH YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Eye, Ear, Nose and Throat	Eye, Ear, Nose and Throat	Surg. Pathology	Urology	Psychological Medicine
10-11	Surgery	Medicine	Surgery	Medicine	Medicine	Medicine
11-12	Surgery	Medicine	Surgery	Medicine	Surgery	Conference
1-2	Pediatrics	Clin. Pediatrics A Clin. Obstetrics B	Clin. Pediatrics B Clin. Obstetrics A	Obstetrics	Obstetrics	
2-3	Radiology	Medicine	Prev. Med.—1st	Path. Microscopy	Radiology	
3-4	Prev. Med.—1st Jurisprudence—2nd	Prev. Med.—1st Jurisprudence—2nd	Prev. Med.—1st Psychopathology 2nd	Pathology	Surgery	
4-5	Gynaecology	Gynaecology	Prev. Med.—1st Psychopathology 2nd	G. U. Clinic Case-taking	Gynaecology	

TIME TABLE FOR SIXTH YEAR

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Clinical Section	Clinical Section	Clinical Section	Clinical Section	Eye, Ear, Nose and Throat	Path. Chem.
10-11	Medicine	Surgery	Surgery	Eye, Ear, Nose and Throat	Surgery	Medicine
11-12	Medicine	Surgery	Medicine	Surgery	Surgery	Conference
1-2	Obstetrics	Obstetrics	Obstetrics		Pediatrics	
2-3	Prev. Med.—2nd	Surgery	Prev. Med.—2nd	Psychiatry	Medicine—1st Bacteriology—2nd	
3-4	Medicine—1st { Medicine } { Pathology } 2nd	Surgery	Surg. Path.—1st { Medicine } { Pathology } 2nd	Medicine	Radiology	
4-5	Medicine—1st { Medicine } { Pathology } 2nd	Surgery—1st Bacteriology—2nd	Surg. Path.—1st { Medicine } { Pathology } 2nd	Gynaecology	Obstetrics	

SUPPLEMENTAL EXAMINATIONS

September, 1940

These examinations will be held during the week beginning Monday, September 9. The precise dates will be decided later.

Students may arrange to sit written examinations at any of the centres approved by the Department of University Extension.

Applications to write supplemental examinations must be in the hands of the Secretary by July 15. The fee charged is \$10.00 for one and \$2.00 for each additional examination.

MEDICAL EXAMINATIONS

May, 1941

Written Examinations

At 9 a.m.

<i>Monday, April 28th</i>	Medicine (6th)
<i>Tuesday, April 29th</i>	Gynaecology (6th)
<i>Wednesday, April 30th</i>	Surgery (6th)
<i>Friday, May 2nd</i>	Preventive Medicine (6th)

9 a.m.

2 p.m.

<i>Saturday, May 4th</i>	Biology (1st) Physics (2nd) Medicine (5th)	Obstetrics (6th) Medicine (4th) Anatomy (3rd)
<i>Monday, May 5th</i>	Pathology (5th) Chemistry (1st)	Psychology (2nd) Physiology (3rd) Pharmacology (4th)
<i>Tuesday, May 6th</i>	Surgery (5th) Applied Anatomy (4th)	Embryology (2nd) Biochemistry (3rd)
<i>Wednesday, May 7th</i>	Psychopathology (5th) Surgery (4th) Physics (1st)	Anatomy (2nd) Bacteriology (3rd)
<i>Thursday, May 8th</i>	Pathology (4th) Applied Anatomy (5th) Chemistry (2nd)	
<i>Friday, May 9th</i>	Histology (2nd)	

Clinical, oral and practical examinations are arranged by the Professors concerned.

HISTORY OF THE UNIVERSITY

Queen's University owes its origin to the desire of the Synod of the Presbyterian Church in Canada in connection with the Church of Scotland for a ministry trained within the country. As early as 1832 the Provincial Government had been petitioned "to endow without delay an institution, or professorships, for the education and training of young men for the ministry in connection with the Synod." This and other representations failing of their object, steps were taken by the Synod to found a college at Kingston on the lines of the Scottish National Universities. On October 16th, 1841, a Royal Charter was issued by Her Majesty Queen Victoria for the establishment of Queen's College, Kingston, and the first classes were opened in March, 1842, with the Rev. Dr. Liddell as Principal. Funds were provided in part by grants from the Presbyterian Church in Scotland, and from the Canadian Government, and in part by liberal subscriptions from the friends of the young and growing University. In 1867-68 the withdrawal of the Provincial grant, and the failure of the Commercial Bank, which swept away the greater part of the endowment, almost brought financial disaster. But the crisis was met by the determination of Principal Snodgrass and of other self-denying workers chief among whom was Professor Mackerras. The country was canvassed for subscriptions, and as a result of the widespread interest aroused, \$113,000 was added to the endowment.

In 1877 Principal Snodgrass was succeeded by the Rev. G. M. Grant who for a quarter of a century built with brilliant success upon the foundation laid by his predecessors. Under his guidance the University gained rapidly in size and prestige. In 1887, as the result of an effort in commemoration of the Queen's Jubilee, \$250,000 was raised, resulting in further extension, and in the establishment of new professorships.

Principal Grant died in 1902, and was succeeded in the following year by the Very Rev. D. M. Gordon. In 1916, owing to ill-health, Principal Gordon resigned his position but continued in office until the autumn of 1917, when the Rev. R. Bruce Taylor was appointed as his successor. In 1930 Principal Taylor resigned his position and went abroad to live, and Dr. J. C. Connell was appointed Acting-Principal until a new Principal should be found. In October, W. Hamilton Fyfe, Head of Christ's Hospital, England, and formerly Fellow of Merton College, Oxford, was installed as Principal. Principal Fyfe resigned in

1936 to accept the Principalship of the University of Aberdeen, Scotland. Dr. Fyfe was succeeded by Principal R. C. Wallace, President of the University of Alberta from 1928 to 1936.

In 1854 the Medical Faculty of Queen's was established. It was reorganized in 1865 as the Royal College of Physicians and Surgeons in affiliation with the University, but in 1891 the original status was resumed.

Queen's led the way in co-education. As early as 1870 special classes in English and other subjects were formed for women, but courses leading to a degree were not thrown open to them until 1878-79. In 1880 co-education was extended to the medical course, and in 1883 a separate Women's Medical College was opened and affiliated with Queen's. It was closed, however, in 1894, as similar facilities were offered in Toronto and elsewhere.

In 1907 the Ontario Government established at Queen's a Faculty of Education for the purpose of providing professional training for teachers in the secondary schools of the Province. In 1920, however, the work of the Faculty was discontinued because of the decision of the Government to extend the scope of the Normal Schools and to create in Toronto the Ontario College for Teachers.

The School of Mining was founded in 1893 under an Ontario charter and for several sessions all its departments were housed in Carruthers Hall, erected in 1889. The Provincial Legislature in 1900 provided Ontario Hall for the Departments of Physics, Geology and Mineralogy, and Fleming Hall for the Departments of Civil, Mechanical, and Electrical Engineering. In 1911 the Provincial Government erected Gordon Hall, which is entirely used by the Department of Chemistry, and, through the generosity of the late Professor Nicol and other graduates, Nicol Hall was built to provide class rooms and laboratories for the Department of Mining and Metallurgy. The School of Mining was amalgamated with the University in 1916 and now constitutes its Faculty of Applied Science.

The endowment of the University is at present about \$2,450,000, of which about \$900,000 was obtained in 1918-19. To this sum the late Chancellor Dr. Douglas contributed \$500,000 and the Carnegie Corporation \$250,000. The annual income of the University, derived from all sources, is nearly \$800,000.

There is now on the University Campus a stately group of buildings, comprising the Old Arts Building (now the Theological Building); Carruthers Hall (Civil Engineering); Kingston Hall (Arts), the gift of the city of Kingston; Grant Hall, erected by students, graduates and friends in honour of Principal Grant; Ontario Hall (Physics, Chemical

Engineering); Fleming Hall (Mechanical and Electrical Engineering); Gordon Hall (Chemistry); Nicol Hall (Mining and Metallurgy); the Medical Building (Anatomy and Preventive Medicine); the Medical Laboratories Building; the Craine Building, named in honour of Dr. Agnes Douglas Craine who left a capital sum of \$375,000 for the teaching of Biochemistry; the new Gymnasium; Miller Hall (Geology and Mineralogy), named in memory of the late Dr. W. G. Miller; the Observatory; the Douglas Library, named in memory of Dr. James Douglas, a former chancellor of the University, who contributed \$150,000.

Queen's University, though founded by a Church, was dedicated to the nation. As its constituency expanded, its constitution was gradually broadened until finally in 1912, as a result of an amicable arrangement between the Presbyterian Church and the trustees of the University, an act was passed by the Dominion Parliament removing the last vestige of denominational control. The registration of students has grown from 665 in 1900 to over 4,200 in the present session, and Queen's has become nation-wide in its work and influence.

GOVERNMENT AND ADMINISTRATION

The administration of the University is vested in the Board of Trustees, the University Council, the Senate, and the Faculty Boards.

THE BOARD OF TRUSTEES

The Board of Trustees consists of the Chancellor, the Principal, and the Rector; one representative from each affiliated college; representatives as provided for by the Statutes from the University Council, the Benefactors, the Graduates; and members elected by the Board of Trustees.

The functions of the Board of Trustees are to manage the finances to possess and care for the property, to procure legislation, to appoint instructors and other officers, and in general to attend to such external matters as do not relate directly to instruction.

THE UNIVERSITY COUNCIL

The University Council consists of the Chancellor, the Trustees, the members of the Senate, and an equal number of members elected by the Graduates from their own numbers.

The annual meeting of the Council is held on the Thursday immediately preceding the Spring Convocation.

The functions of the Council are:

(1) To elect the Chancellor, except when two or more candidates are nominated, in which case the election is by registered graduates.

(2) To elect six trustees, two of whom shall retire annually.

(3) To make by-laws governing the election of the Rector by the registered students, of seven trustees by the benefactors, of six trustees by the University Council, and of six trustees by the graduates.

(4) To discuss all questions relating to the University and its welfare.

(5) To make representation of its views to the Senate or the Board of Trustees.

(6) To decide on proposals for affiliation.

(7) To arrange all matters pertaining to (a) its own meetings and business, (b) the meetings and proceedings of Convocation, (c) the installation of the Chancellor, (d) the fees for memberships, registration and voting.

THE SENATE

The Senate consists of:

The Principal.

Vice-Principal.

The Principal of Queen's Theological College.

The Dean of the Faculty of Arts.

The Dean of the Faculty of Medicine.

The Dean of the Faculty of Applied Science.

Three Professors elected by the Faculty of Arts.

Three Professors elected by the Faculty of Medicine.

Three Professors elected by the Faculty of Applied Science.

Two Professors elected by the Faculty of Queen's Theological College.

The functions of the Senate are:

(1) To determine all matters of an academic character which concern the University as a whole.

(2) To consider and determine all courses of study leading to a degree, including conditions of Matriculation, on recommendation of the respective Faculty Boards; but the Senate shall not embody any changes without having previously presented these to the Faculty.

(3) To recommend to the Board of Trustees the establishment of any additional Faculty, Department, Chair or Course of Instruction in the University.

(4) To be the medium of communication between the Alma Mater Society and the Governing Boards.

(5) To determine all regulations regarding the social functions of the students within the University, and regarding the University Library and University Reading Rooms.

(6) To publish the University Calendars.

(7) To conduct examinations.

(8) To grant Degrees.

(9) To award University Scholarships, Medals, and Prizes.

(10) To enforce the Statutes, Rules, and Ordinances of the University.

(11) To make such recommendations to the Governing Boards as may be deemed expedient for promoting the interests of the University.

THE FACULTY BOARD

The Dean, Professors, Associate Professors, and Assistant Professors, have power to meet as a separate board, and to administer the affairs of the Faculty under such regulations as the Board of Trustees may prescribe. The Principal and Vice-Principal are members of the Faculty Board, of which the Principal is ex-officio president.

The functions of the Faculty Board are:

(1) To recommend to the Senate courses of study leading to a degree, and the conditions of admission.

(2) To decide upon applications for admission or for change of course, subject to the regulations of the Senate.

(3) To submit to the Senate names for both ordinary and honorary degrees.

(4) To arrange the time-table for classes and to edit the Faculty Calendar, subject to the approval of the Senate.

(5) To control registration, and determine the amount of fees and manner of payment, subject to the regulations of the Senate.

(6) To deal with class failures.

(7) To exercise academic supervision over students.

(8) To make such recommendations to the Senate as may be deemed expedient for promoting the efficiency of the University.

(9) To award Faculty Scholarships, Medals, and Prizes.

(10) To appoint such sessional assistants, fellows, tutors, and demonstrators as shall be needed to give instruction in the subjects taught by the Faculty.

(11) To pass such regulations and by-laws as may be necessary for the exercise of the functions of the Faculty.

OFFICERS OF ADMINISTRATION

CHANCELLOR

PRINCIPAL AND VICE-CHANCELLOR

ROBERT C. WALLACE, M.A., D.Sc., Ph.D., LL.D., F.G.S., F.R.S.C.

RECTOR

HON. NORMAN MCLEOD ROGERS, M.A., B.Litt., B.C.L. (Oxon.)

VICE-PRINCIPAL AND TREASURER

W. E. MCNEILL, M.A., Ph.D., D.C.L., LL.D., F.R.S.C.

REGISTRAR

JEAN I. ROYCE, B.A.

THE BOARD OF TRUSTEES

Chairman

J. M. MACDONNELL, M.A.

Secretary

W. E. MCNEILL, M.A., Ph.D., D.C.L., LL.D., F.R.S.C.

Ex-Officio Members

THE CHANCELLOR OF THE UNIVERSITY

ROBERT C. WALLACE, M.A., D.Sc., Ph.D., LL.D., F.G.S., F.R.S.C.

Principal

HON. NORMAN MCLEOD ROGERS, M.A., B.LITT., B.C.L. (Oxon.) Rector

Elective Members

Retire 1940

REV. G. A. BROWN, M.A., B.D., D.D. ⁵	Kingston, Ont.
SENATOR A. C. HARDY, B.A., LL.B., P.C., K.C. ⁶	Brockville, Ont.
DENNIS JORDAN, B.A., M.D., C.M. ⁶	Toronto, Ont.
REV. LESLIE PIDGEON, B.A., D.D. ⁶	Montreal, P.Q.
FRASER D. REID, B.Sc. ⁴	Toronto, Ont.

Retire 1941

G. C. BATEMAN, B.Sc. ¹	Toronto
J. M. CAMPBELL, ESQ. ⁷	Kingston
J. G. DWYER, M.A., M.D., C.M., LL.D. ⁶	New York
T. H. FARRELL, M.A., M.D., C.M. ¹	Utica, N.Y.
V. K. GREER, M.A. ³	Toronto
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Retire 1942

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Retire 1943

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Retire 1944

C. JACKSON BOOTH, ESQ. ²	Ottawa
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¹Elected by the University Council for three years.

²Elected by the Benefactors for four years.

³Elected by the Graduates for three years.

⁴Elected by the Board of Trustees to represent the Faculty of Applied Science for three years.

⁵Elected by the Faculty of Queen's Theological College for one year.

⁶Elected by the Board of Trustees for four years.

⁷Elected by Benefactors to represent the Faculty of Applied Science for three years.

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Retire 1942

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Retire 1943

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Retire 1944

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C. W. DRURY, B.Sc., Ph.D.	Toronto, Ont.
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B. R. MACKAY, B.Sc., Ph.D.	Ottawa, Ont.
W. A. NEWMAN, B.Sc.	Montreal, Que.
E. T. STERNE, B.Sc.	Brantford, Ont.
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Retire 1945

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MRS. G. S. SILVERTHORNE, B.A., M.D., C.M.	Toronto, Ont.

Retire 1946

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	Acting Principal of Queen's
	Theological College

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REV. S. M. GILMOUR, Ph.D.	Retires 1941

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Assistant Professor of Physics
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Assistant Curator of Pathological Museum
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Clinical Assistant in Medicine, Assistant in Pathology
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Superintendent of Buildings

JAMES BEWS

Secretary-Treasurer, Athletic Board of Control

CHAS. C. HICKS

EQUIPMENT AND SPECIAL FACILITIES

THE MEDICAL BUILDINGS

The Old Medical Building, erected in 1858, was destroyed by fire in August, 1924. It has now been replaced by a fire-proof structure, which houses the departments of Anatomy and Preventive Medicine.

In the Medical Laboratories building are conducted the courses in Bacteriology, Embryology, Histology, and Physiology.

The department of Pathology is housed in the Richardson Laboratory, attached to the Clinic building, General Hospital.

The Craine Building houses the departments of Biochemistry and Pharmacology.

THE LABORATORIES

THE BIOLOGICAL LABORATORIES

The classes in the Department of Biology are conducted in new quarters in the Old Arts building. The laboratories are provided with the supplies and equipment necessary for the study of plant and animal life and are provided with a separate locker for each student.

The laboratories in Bacteriology are situated on the second and third floors of the Medical Laboratories building; that for Experimental Physiology occupies the west side of the second floor of the building and has all appliances necessary for 50 students working at one time. The work in Histology and Embryology is conducted on the west side of the first floor, where there is accommodation for 120 students.

THE CHEMICAL LABORATORIES

The Chemical Laboratories are in Gordon Hall. On the fourth floor are the laboratories of Medical Organic and Water Analysis. On the third floor are two laboratories for General Chemistry, and a laboratory for Electrochemistry and Colloid Chemistry. On the second or main floor are two laboratories for Quantitative Analysis, two for Organic Chemistry, and one for Industrial Chemistry. On the first or basement floor are three laboratories for Qualitative Analysis, and two for Physical Chemistry. Besides these there are a number of small separate laboratories for research work. The Biochemistry laboratory is in the Craine Building.

THE PHYSICAL LABORATORIES

The Physics Laboratories occupy the major part of Ontario Hall. The basement contains the large elementary laboratory, the liquid air room, numerous research laboratories and the research workshop. The main floor is given over to undergraduate lecture and laboratory rooms. The second floor has two large lecture rooms, laboratory room for advanced undergraduate classes and for research. The attic is used for workshop and storage purposes.

THE HOSPITALS

The General Hospital is the centre for clinical teaching and all members of its staff are nominated by the Medical Faculty. The Douglas Building houses the Public Wards, Operating Theatres, X-ray, Radio-therapy and Electro-therapeutic departments and various out-patient services. The Nickle Wing is occupied by the Obstetrical department and the Doran Wing is the Children's Hospital. The Isolation Hospital forms part of the General Hospital group and is under its administration. Sixty-four patients can be accommodated and at present one-half of the available accommodation is set aside for Tuberculosis. This Hospital affords full opportunity for clinical teaching in infectious diseases including Tuberculosis.

The Hotel Dieu Hospital public wards are used for clinical teaching by members of its staff nominated by the Medical Faculty.

The Ontario Hospital for Mental Diseases is open for clinical instruction. Its staff are responsible for teaching of mental diseases. Its large population affords much material for medical, surgical, gynaecological and pathological teaching by members of staff of Medical Faculty.

ONTARIO INSTITUTE OF RADIOTHERAPY, KINGSTON

The Ontario Institute of Radiotherapy of Kingston for the diagnosis and treatment of cancer and allied diseases is situated in the Kingston General Hospital. A special floor of twenty beds is available for the accommodation of in-patients. Ward patients are at the disposal of the consulting and attending staff of the institute for teaching purposes. Ward out-patients are also available as clinical material. Students will be familiarized with the diagnosis and treatment of all types of cancer, and the necessity for early diagnosis and early adequate treatment will be demonstrated.

The consulting staff of the institute consists of the heads of the departments of Gynaecology, Medicine, Ophthalmology, Otolaryngology, Pathology, Physics, Radiology, Surgery and Urology of the Medical Faculty. Dr. J. A. Gray, F.R.S., of the Faculty of Science, acts as consulting physicist.

The division of radiology is equipped with latest type of X-ray units for both superficial and deep therapy, and with modern radiographic machines.

The department has 410 milligrammes of radium for treatment purposes and has also available a supply of radium emanation as needed.

The Institute is a part of the effort of the Ontario Government to combat cancer.

PATHOLOGICAL MUSEUM

The Pathological Museum contains numerous valuable specimens collected both from hospital and private practice. A catalogue has been compiled and is accessible for use in study of the specimens. Contributions of morbid specimens will be gladly received from practitioners.

The Museum has recently been considerably enlarged and rearranged in accordance with the best modern methods. It now contains over 2,000 specimens, the majority of which are mounted by modern methods for preserving colour.

The Museum is housed in the Richardson Laboratory at the new Hospital Building.

LIBRARY

The Douglas Library building provides one large reading room, three smaller ones, a number of conference rooms, exhibition room and offices for the library staff.

In the main reading room will be found a collection of some 5,000 volumes of general reference works on open shelves. The main collection, shelved on five tiers of book-stacks, occupies the centre of the building under the main reading room. The general library now includes about 163,000 volumes as well as many original manuscripts and prints.

The system of classification used is that of the Library of Congress.

Seven hundred and fifty journals and other serials are currently received.

In addition to the general library, there are departmental libraries for physics; chemistry; mining and metallurgy; geology and mineralogy; civil, mechanical, and electrical engineering; clinical medicine; ophthalmology; pathology.

The Lorne Pierce Collection of Canadian Literature is very rich in first editions, original manuscripts and rare Canadiana.

The Shortt-Haydon Collection of portraits and views relating to Canada is one of the finest collections of its kind in existence.

The library of the Medical Faculty is now located in the Old Arts Building, and has its own reading room. It is administered by the staff of the general library.

The John Franklin Kidd Endowment provides for an annual fund for the purchase of books in the department of Surgery. These volumes are marked by a special book plate and form a valuable section of the Library gradually increasing in importance.

GENERAL INFORMATION

ADMISSION OF STUDENTS

The number of students admitted to the classes of the first year is limited and prospective matriculants should make formal application for admission on forms obtainable from the Secretary of the Faculty. These applications should be in the hands of the Secretary not later than August 16th. Applicants will be notified of the decision of the Committee on Admissions as soon as possible after that date. Only under special circumstances will applications be considered *after* August 16th.

Men only are admitted.

Matriculation requirements must be completed before admission.

All Ontario candidates for admission must satisfy the requirements for registration with the Ontario College of Physicians and Surgeons, viz.,

(1) Pass Matriculation in six of the following subjects:

Latin (Authors and Composition).
English (Literature and Composition).
History (Canadian and Ancient).
Mathematics (Algebra and Geometry).

and any two of the following:—

Greek (Authors and Composition).
German (Authors and Composition).
French (Authors and Composition).
{ Spanish (Authors and Composition),
 or,
 Italian (Authors and Composition).
{ Experimental Science (Physics and Chemistry),
 or,
 Agriculture (Part I and Part II).

and, in addition,

(2) Honour Matriculation in five subjects (*eight papers*) of which the following three will be obligatory: English, Chemistry and Mathematics (2 papers). First-year Arts standing will be held to cover Upper School standing, provided that Middle School standing requirements shall have been met. A six-year medical course must follow such registration.

The Faculty of Medicine limits first year registration to forty-five students. A selection from applicants for admission will be made on the basis of their qualifications.

A candidate entering with Honour Matriculation who, in the course of two years in the Faculty of Arts, has obtained credit for Physics 1, Biology 1 and 15, Chemistry 1 and 2, may be admitted to the second year of Medicine. The course in Medicine may thus be completed in five years instead of six.

Candidates from Provinces of Canada other than Ontario must present certificates of a standard equivalent to that required for students from the Province of Ontario.

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements. In many cases a special standard of general education is insisted upon before beginning the study of medicine. In order that disappointment and loss of time may be avoided, the University requires students to register with the licensing body of their home Province or State before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards (see pages 52, 53).

Prospective matriculants must submit with their applications for admission the certificates on which they claim standing.

Teachers' examinations are accepted *pro tanto* in lieu of the Matriculation Examinations in so far as the subjects correspond.

Certificates of Matriculation in any University may be accepted *pro tanto* at the discretion of the Faculty.

MATRICULATION EXAMINATIONS

The Matriculation examinations are conducted for the Universities of Ontario by the University Matriculation Board. They are held in June of each year at the Universities and at each High School and Collegiate Institute in Ontario and at such other centres as may be approved by the Board.

The Secretary of the University Matriculation Board, J. P. Cowles, Esq., Parliament Buildings, Toronto, will furnish, on request, the official circular which contains full information concerning dates, fees, standards, curriculum, and examination centres. The University also publishes an announcement containing all particulars regarding Matriculation, which may be obtained from the Registrar of the University.

REGISTRATION

Students not registering *in person* on or before September 25th, must pay the fee for late registration and no student will be allowed to register in the Faculty of Medicine after the 5th of October.

At the time of registration, students who claim exemptions must present to the Secretary certificates giving an exact statement of the exemptions to which they are entitled.

A student who has attended the course of instruction in any year will be required to complete the examinations of that year before he will be permitted to register in the succeeding year.

FRATERNITIES

By resolution of Senate no student registered with the University may form or become a member of any chapter of an externally-affiliated fraternity or sorority at or near Kingston.

CURRICULUM

Candidates for the degrees of M.D., C.M., must complete a period of six years' study, comprising six sessions of eight months each.

Regular attendance on full courses of instruction is required in the following subjects of study:—

1st Year:—General Biology, Chemistry, Physics, English, First Aid.

2nd Year:—Anatomy, Organic Chemistry, Histology, Embryology, Physics, Psychology.

3rd Year:—Anatomy, Physiology, Biochemistry, Bacteriology.

4th Year:—Pathology, Pharmacology, Applied Anatomy, Surgery, Medicine, Clinical Microscopy, Preventive Medicine, History of Medicine, Gynaecology.

5th Year:—Surgery, Medicine (including Therapeutics), Obstetrics, Gynaecology, Pathology, Eye, Ear, Nose and Throat, Applied Anatomy, Pediatrics, Preventive Medicine, Jurisprudence, Psychopathology.

6th Year:—Surgery, Medicine, Obstetrics, Gynaecology, Serology and Pathology, Preventive Medicine, Psychiatry, Eye, Ear, Nose and Throat, Pediatrics, Pathological Chemistry.

Certificates of attendance on lectures may be accepted from incorporated medical schools in the British Dominions and others recognized by British Universities and licensing bodies. Other certificates of attendance on lectures and examinations may be accepted at the discretion of the Faculty.

EXAMINATIONS AND GRADUATION

Examinations are held at the end of the fall term.

Students in the first three years must attend a minimum of 90 per cent. and students in other years a minimum of 80 per cent., of the lectures and laboratory exercises in the subjects for which they are registered to be admitted to the final examinations in those subjects.

A minimum of sixty per cent. in each subject is required for a pass.

The Faculty may at any time either during the term or after the close of the term, require any student to withdraw from the Faculty of Medicine whose conduct, attendance, work or progress is deemed unsatisfactory.

Candidates who pass in a majority of the subjects required at the annual examinations at the end of the First, Second and Third years and in all but three subjects at the end of the Fourth, Fifth and Sixth years, may present themselves at the supplemental examinations next ensuing in the subjects in which they fail. On passing such examinations they will be allowed their year.

A candidate will not be admitted to an examination unless he has paid all University fees.

EXAMINATIONS

Examinations are required at the end of every session as follows:

At the end of the first session:—

General Biology, Chemistry, Physics, English.

At the end of the second session:—

Anatomy, Organic Chemistry, Physics, Histology, Embryology, Psychology.

At the end of the third session:—

Anatomy, Physiology, Biochemistry, Bacteriology.

At the end of the fourth session:—

Pathology, Pharmacology (including Materia Medica), Applied Anatomy, Surgery, Medicine, Preventive Medicine.

At the end of the fifth session:—

Surgery, Medicine, Obstetrics, Gynaecology, Pathology, Pediatrics, Applied Anatomy, Eye, Ear, Nose and Throat, Jurisprudence, Preventive Medicine, Psychopathology, Radiology.

At the end of the sixth session:—

Surgery, Medicine, Gynaecology, Obstetrics, Serology and Pathology, Preventive Medicine, Psychiatry, Eye, Ear, Nose and Throat, Pediatrics, Pathological Chemistry.

EQUIVALENT EXAMINATIONS

The following courses and examinations in Arts will be accepted in Medicine:—

ARTS

1. Courses and examinations in Biology 1 and 15.

2. Courses and examinations in Chemistry 1 and Chemistry 2.

3. Course and examination in Physics 2.

MEDICINE

1. Course and examination in first year General Biology.

2. Course and examination in first year Chemistry.

3. Attendance on Lectures until Christmas, in second year Physics.

The courses in Chemistry and Physics must be taken in the University; the classes will not be allowed to holders of certificates of Honour Matriculation.

FEEES

FIRST YEAR

Sessional fee (including Registration, Tuition, Examinations, Library, Laboratory fees, and Degree fee)	\$ 200.00
Student interests (including Health Insurance, Athletics, Alma Mater Society, "Queen's Journal", Aesculapian Society, and Union)	23.00
Sessional Laboratory Deposit	10.00

SECOND, THIRD, FOURTH, FIFTH AND SIXTH YEARS

Sessional fee (including Registration, Tuition, Examinations, Library, Laboratory fees, Degree fee and Student interests	245.00
Sessional Laboratory deposit (each year)	10.00
Special Fees, payable when incurred:	
Late Registration	3.00
Supplemental examination in one subject	10.00
Each additional subject	2.00
Degree of Master of Science in Medicine (see p. 41).	
Diploma of Public Health	20.00
Diploma in Medical Radiology (see p. 43).	
Extra Fee for Degree in Absentia	10.00
Pro tanto fee	10.00

All Fees and deposits are payable to the Treasurer of the University.

Fees may be paid in two equal instalments, in which case an additional \$5.00 will be added to the first instalment. This first instalment and the laboratory deposit must be paid at the time of registration, and the balance paid on or before January 6th, 1941. No student will be admitted to classes until the above conditions have been complied with, nor will he be permitted to continue the work of the second term until the fees have been paid in full.

BOARD AND ROOM

During the session 1939-1940 students have paid from \$5.00 to \$6.00 a week for board, and \$2.50 to \$3.00 for room, so that satisfactory board and lodging may be obtained at from \$7.50 to \$9.00 per week. Lists of boarding and lodging houses may be obtained from the Secretary of the Faculty.

MICROSCOPES

Every student entering the Faculty of Medicine will be required to have at the commencement of his studies, a first-class microscope of approved design. Such an instrument is an essential part of the equipment of a practitioner in medicine.

The Faculty of Medicine have made arrangements whereby such instruments can be purchased at a low price, either for cash at cost or by three equal annual payments which include carrying charges. In the latter case the microscope is retained by the University during vacations until payment is completed. In recent years the cost for outright purchase has been approximately \$90.00.

Further information regarding the microscopes and methods of payment may be obtained from the Secretary of the Faculty of Medicine.

PHYSICAL WELFARE OF STUDENTS

All students admitted must produce evidence of successful vaccination.

Every student is required upon registration to contribute \$4 towards a health insurance fund. In return the student has the free services of the University Medical Officer and a special Hospital rate of 50 cents a day. Details of the plan are given in a printed leaflet which may be had on request.

Each first year student is given a physical examination by the University physician, and corrective exercises in the Gymnasium are prescribed when they are needed. Gymnasium work for two hours each week is required of all first year students unless excused by the Medical Officer or on account of military training with the Officers' Training Corps.

TUBERCULIN TESTS

Tuberculin tests will be given to all students entering Queen's University for the first time in September, 1940. This service will be free of charge but those who react positively must have an X-ray examination at their own cost.

ATHLETICS

As a member of the Canadian Intercollegiate Athletic Union, Queen's gives every opportunity for students to compete in intercollegiate athletics on some of the many teams representing the University, while the student who is unable to find a place on a University team has the chance to play in inter-year and inter-faculty games.

Each student pays an Athletic Fee of \$5.00, which is collected with the sessional fee and paid to the Athletic Board of Control, by whom all athletic activities, the rink, the playing fields and the gymnasium are controlled.

During the summer of 1921, through the generosity of the late Dr. James Richardson, of Winnipeg, a graduate in Arts and formerly Chancellor of the University, the George Richardson Memorial Stadium was built on the Union Street Campus. The grand stand and bleachers accommodate about 7,000 spectators.

The Jock Harty Arena, built in 1921, was destroyed by fire in the spring of 1924. It was rebuilt on the same site during the summer. The new arena is equipped with an artificial ice plant.

STUDENT ADVISERS

In order to assist students in general methods of study and in the solution of personal and class problems, a student adviser has been appointed for each of the first two years.

Adviser for the first year, 1940-41, Professor J. K. Robertson.

Adviser for the second year, 1940-41, Dr. G. Spencer Melvin.

THE ALMA MATER SOCIETY

Queen's was the first University in Canada to introduce Student Government. All students are members of the Alma Mater Society, the chief instrument of Student Government, and are expected to share in its duties and responsibilities.

ALMA MATER SOCIETY LECTURE

In 1939, as a contribution from the student body to the Centenary Endowment Fund, the Alma Mater Society gave the University its accumulated reserve of \$1,711. The income will be used to provide an annual lecture to be known as the Alma Mater Society Lecture.

THE AESCULAPIAN SOCIETY

All students registered in the Faculty of Medicine are members of the Aesculapian Society, and amenable to its rules and regulations.

Office Bearers

Honorary President	Dr. James Miller
President	Matthew B. Dymond, '41
Vice-President	Hudson M. Campbell, '42
Secretary	Richard S. Duggan, '41
Assistant Secretary	Clayton N. Robinson, '44
Treasurer	Irwin W. Bean, '43
Permanent Secretary-Treasurer	Dr. Eldon M. Boyd

THE CANADIAN OFFICERS' TRAINING CORPS

The Queen's University Contingent of the C.O.T.C. formed at the outbreak of the last war under Lieut.-Col. A. B. Cunningham, was organized as a Unit of the Militia in February, 1915. Reorganized after the war by Col. A. Macphail, C.M.G., D.S.O., it is now commanded by Lt.-Col. R. O. Earl.

The training prepares for examinations held by the Department of National Defence. Candidates who are successful will be qualified for the rank of Captain in the Royal Canadian Army Medical Corps, when they will have received their degrees in Medicine and have had sufficient experience in that Corps.

A Scholarship entitled the American Legion Scholarship, value \$100.00, has been established by Dr. George Hayunga. It is awarded annually to the member of Queen's University Contingent who obtains the highest marks on the C.O.T.C. examinations and has obtained a high standing in his academic course.

HIGHER DEGREES

A standing committee on Medical graduate studies consisting of the Principal, the Dean, the Secretary and four members of the staff of the Medical Faculty shall consider all applications for graduate degrees in Medicine and shall report to the Faculty on the fitness of the candidate to enter a graduate course and recommend to the Faculty the prescribed programme of work.

THE DEGREE OF MASTER OF SCIENCE IN MEDICINE

Prerequisite: A candidate for the degree of M.Sc. (Med.) must have taken the degree of M.D. with a minimum standing of 75% in his special subjects and an average of 70% in the last three years of his Medical course. A candidate who does not meet this requirement may be accepted only by special permission of the Medical Faculty.

A candidate in full time employment in the University or elsewhere will not normally be admitted to the M.Sc. (Med.) course.

Application: Application for admission to the M.Sc. (Med.) course must be made to the Registrar of the University in writing at least three weeks before the opening of the session. Candidates, if not graduates of Queen's University, must send official certificates giving full details of their academic training. An outline of proposed studies, based upon the requirements described below, must accompany the application.

Curriculum: The course consists of two parts as follows:

(1) Research and thesis, representing not less than half the session's work. Except by special permission the thesis must be submitted by May 1st for a degree in the Spring and by September 20th for a degree in the Fall.

(2) Lectures or reading, laboratory or clinical work cognate to that of the field of study. Ordinarily half of this cognate work will be done in the department in which the candidate is carrying out his research, and the other half in one or more other departments not necessarily in the Medical Faculty.

Examinations: The candidate will be required to take the following examinations:

(1) Two written examinations—one in each half of the cognate work referred to in part 2 under Curriculum. The candidate must

obtain at least seventy-five per cent in examinations taken in the Faculty of Medicine and at least second class honours in examinations taken in the Faculties of Arts or Applied Science.

(2) An oral examination in the field of the candidate's research by a committee of at least four appointed by the standing committee on Medical Graduate Studies. Not more than two members of the committee may be chosen from the department concerned.

Previous to the oral examination the thesis submitted by the candidate must have been read and approved by this committee.

Residence: A candidate for the degree of M.Sc.(Med.) must do all of his work (towards this degree) in residence at the University, during at least one session.

Fees: The annual fees are as follows: Sessional fee, \$120.00; Student Interests, including membership in the Aesculapian Society, \$23.00; a laboratory deposit of \$10.00. The degree fee is \$20.00 to be paid by April 1st.

Teaching Assistance: Candidates for the degree of M.Sc.(Med.) may give not more than 10 hours per week during the academic year to assisting members of the Faculty in teaching or in other academic or clinical duties, providing that the time so lost is recompensed by work on their problem of research during the summer vacation or providing they extend their course over two academic years.

DIPLOMA OF PUBLIC HEALTH (D.P.H.)

For candidates proceeding to take this Diploma after graduation as M.D.

Candidates will be entitled to enter for examination for this Diploma on presenting certificates of having taken:

(1) Three months' course in Sanitary Physics (principles of statics, pneumatics, hydraulics, light, photometry, heat, thermometry, hygrometry).

(2) Three months' course in Sanitary Chemistry, especially devoted to quantitative and qualitative analysis of air, water, and common foodstuffs; this course must include one week's work in practical testing of milk and milk products for adulteration or sophistication.

(3) Three months' course in a Bacteriological Laboratory devoted to bacteriological aspects of Public Health work, such as examination

of sputum, blood, swabs, water and milk, and the detection of common animal parasites.

(4) Three months' course in advanced Hygiene, covering especially a discussion of sewage and garbage disposal, water supplies, disinfection, transmissible diseases, vital statistics and sanitary legislation.

(5) Three months' course in Sanitary Engineering, including water services, sewerage systems, sewage and garbage disposal.

(6) Three months' attendance and clinical instruction in a Hospital for Infectious Diseases.

(7) Six months with a recognized Medical Officer of Health in the study of Practical Sanitation.

DIPLOMA IN MEDICAL RADIOLOGY (D.M.R.)

The Faculty of Medicine, Queen's University, has introduced a graduate course leading to a Diploma in Medical Radiology.

Candidates for the Diploma must

- (1) be graduates of a Medical School recognized by the Senate,
- (2) have spent at least one year after graduation as an interne in a recognized hospital or have had two years' experience in general practice.

The curriculum leading to the Diploma extends over

- (A) one academic session at the University,
- (B) two terms of eleven months each of service and training in a recognized Radiological Department.

Special provision is made for such candidates as have been, prior to December 31st, 1936, practising as full time radiologists. In the event of such candidates having undertaken a course approved by the Board as equivalent to that laid down in Part I below at a centre with facilities for providing the required instruction, they may be exempted from attending the academic session at the University. They shall, however, be required to sit the examination. This provision will remain in force only until 31st December, 1941.

Not more than two candidates will be admitted to an academic session at the University. The selection of candidates rests with a Board appointed by the Medical Faculty.

The following courses will be provided:—

PART I

1. Anatomy (radiographic)
2. Pathology
3. Radio-biology.
4. Radio-physics.
5. Radiographic Technique.

These subjects will be given during the academic session.

PART II

6. Diagnostic Radiology
7. Radio-therapy.
8. General Medicine and Surgery.

Study of these subjects is spread over the three terms.

Examinations:

Part I. An examination will be held at the end of each academic session.

Part II. After passing the examination in Part I and having fulfilled the conditions of curriculum laid down in (B) above.

Candidates who have passed the examinations will be granted the Diploma in Medical Radiology (D.M.R.).

Fees. The fee for the Diploma is \$150.00. In addition, candidates undertaking Parts I and II at the University, are charged a fee of \$100.00 payable to the Kingston General Hospital to cover expenses involved. Radiologists availing themselves of the special provision quoted above are charged a fee of \$85.00.

Further information as to details of the courses may be obtained on application to the Secretary of Faculty.

SCHOLARSHIPS AND HONOURS

The following scholarships and honours are awarded to students in the Faculty of Medicine. The scholarships, except those awarded in the final year, are tenable only by students in residence in the session following the award.

THE ROBERT BRUCE SCHOLARSHIP

The Robert Bruce Scholarship of about \$75 awarded at the end of the first year to the student of Scottish extraction making the highest number of marks in the examinations of that year. One-third of the value of the Scholarship will be paid to the winner in each of the second, third, and fourth years of his course, provided he is in attendance in the Faculty in which the award was made.

This Scholarship has been established under provisions in the will of the late Robert Bruce of Quebec, and similar scholarships are awarded in the Faculties of Arts and Science.

KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL FUND

This fund is part of a sum, left from the Khaki University after the War, which was divided among the Canadian Universities.

The interest, amounting to \$240, will be used to award one or more scholarships open to undergraduate students in any Faculty. In awarding these scholarships the need as well as the standing of applicants will be considered and preference will be given to sons or daughters of soldiers of the Great War. Applications will be received by the Registrar up to April 1st.

B'NAI B'RITH KINGSTON, BURSARY

Value \$50. Founded by the B'nai B'rith Lodge of Kingston. This Bursary will be awarded annually to a student of promising ability but straitened circumstances. The award will be made on the basis of the final examinations. Applications will be received up to April 1 of each year.

THE REUBEN WELLS LEONARD SCHOLARSHIPS

Under the will of the late Reuben Wells Leonard provision was made for the following Scholarships:

REUBEN WELLS LEONARD PENULTIMATE YEAR SCHOLARSHIPS

One Scholarship of the value of \$300 and one of the value of \$200. Awarded to the students obtaining highest and second highest standing

respectively at the end of the penultimate year. The student must be in residence in his final year.

REUBEN WELLS LEONARD SPECIAL SCHOLARSHIP

For a period of three years, 1940-42, special Reuben Wells Leonard Scholarships for merit and need will be awarded in varying amounts to students of promising ability but straitened circumstances. The awards will be made on a loan or service basis.

REUBEN WELLS LEONARD FELLOWSHIPS

For a period of three years, 1940-42, \$1,500 will be available for Fellowships of varying amounts for Queen's graduates continuing their work at Queen's University. Application for these Fellowships must be received by April 1.

THE W. W. NEAR AND SUSAN NEAR SCHOLARSHIPS AND BURSARIES

Under the wills of the late W. W. Near and his widow the late Susan Near provision was made for the following scholarships and bursaries.

1. An annual scholarship of the value of \$80 will be awarded to the student with the highest standing in each of the first, second, third and fourth years.

2. An annual scholarship of the value of \$40 will be awarded to the student taking second place in each of the first, second, third and fourth years.

3. An annual scholarship of the value of \$50 will be awarded to the student taking second place in the fifth year.

These scholarships will be tenable only by students who are in residence the year following the award.

4. An annual scholarship of the value of \$100 will be awarded to the sixth year student with the highest standing throughout his course.

5. An annual scholarship of the value of \$70 will be awarded to the sixth year student with the second highest standing throughout his course.

6. Three bursaries of the value of \$100 each will be awarded annually to students who in any year have shown an interest in and aptitude for practical work in a laboratory, and will undertake to carry out work of a research nature in the laboratory during the year following the award.

Applications for these bursaries must be made not later than April 1st of each year.

THE N. F. DUPUIS SCHOLARSHIP

The N. F. Dupuis Scholarship of \$50 awarded to the student making the highest number of marks in the examinations in Chemistry of the third year. This Scholarship was founded by the graduates as a mark of their appreciation of the long and effective services of the late Dr. N. F. Dupuis, Professor of Mathematics.

SYLVANUS JOY SCHOLARSHIP

A Scholarship of \$40 awarded for proficiency in Materia Medica.

THE D. T. SMITH PRIZE IN PHARMACOLOGY

A prize, value \$20, awarded to the student in the fourth year making the highest number of marks in Pharmacology.

THE DAVID EDWARD MUNDELL PRIZE

The David Edward Mundell Prize of \$40, awarded to the student making the highest aggregate marks in the Surgical Applied Anatomy final examination of the fifth and sixth years.

THE DEAN FOWLER SCHOLARSHIP

The Dean Fowler Scholarship of \$40 awarded to the student making the highest number of marks in the examinations of the sixth year.

SIR JOHN C. SCHULTZ MEMORIAL SCHOLARSHIP

Value \$80. Founded by his widow in memory of the late Sir John C. Schultz, K.C.M.G., M.D., LL.D., F.R.S., a leader of the loyal settlers against Riel in the Rebellion of 1869-70, and later a Lieutenant Governor of Manitoba. The Scholarship is based on the combined results of the sessional examinations of the fourth and fifth years, and is awarded when the student is in actual attendance in his final year. It is open only to male students of British descent, and the holder must be of good Christian character, a total abstainer, and of satisfactory scholastic attainments. Preference will be given to non-smokers and to students who are planning to become medical missionaries.

THE VICTOR LYALL GOODWILL MEMORIAL PRIZE

Value \$100. This prize was founded in 1936 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. The award is made annually to the student who submits the best essay dealing with some aspect of Mental Health or Disease.

Essays submitted for this prize should be handed in not later than March 15th.

THE VICTOR LYALL GOODWILL MEMORIAL SCHOLARSHIP IN INTERNAL MEDICINE

Value \$100. This Scholarship was founded in 1937 by Mrs. Florence M. Goodwill of Charlottetown, Prince Edward Island, in memory of her late husband Dr. Victor Lyall Goodwill. It will be awarded annually to a student at the end of his Fifth year in consideration of:—(1) his standing in written and clinical oral examinations of the session, (2) his capacity to examine patients as brought out by the written clinical histories of cases assigned to him during the session.

ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

An annual prize of twenty-five dollars has been instituted in the class of Preventive Medicine by the Ontario Medical Association. The first award of the prize was made at the close of session 1931-32 to the student who gained the highest marks in the class examinations.

PROFESSOR'S PRIZE IN SURGERY

A prize awarded to the student in the final year making the highest standing in Surgical Subjects.

PROFESSOR'S PRIZE IN MEDICINE

A prize awarded to the student in the final year making the highest standing in Medical Subjects.

PROFESSOR'S PRIZE FOR PATHOLOGICAL CASES

A prize awarded to the student who makes the highest marks on the series of pathological cases sent in.

PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

A prize awarded to the student who is *proxime accessit* in the class.

UNIVERSITY MEDALS

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Medicine, Pathology, Preventive Medicine, Psychiatry, and Jurisprudence.

A University Medal awarded to the student making the highest number of marks in the examinations of the sixth year in Clinical Surgery, Obstetrics, Gynaecology, Applied Anatomy, and Eye, Ear, Nose and Throat.

The following awards are not endowed and are made only if the money is available:—

THE NEW YORK ALUMNI ASSOCIATION PRIZE

The New York Alumni Association Prize of \$50 awarded to the student making the highest number of marks in the courses in Embryology and Histology of the second year.

THE BOAK PRIZE

The Boak Prize in Anatomy, value \$25, donated by Dr. Eric W. Boak, of Victoria, B.C., awarded to the student making the highest number of marks in the written and oral examinations in Anatomy of the third year.

SCHOLARSHIP IN PSYCHIATRY

A Scholarship of \$25 presented by Dr. B. T. McGhie, Deputy Minister of Health, to be awarded to the student making the highest marks in the examination in Psycho-pathology in the fifth year.

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE PRIZE

A prize of \$50 awarded by the Canadian National Committee for Mental Hygiene to the student making the highest marks in Psychiatry.

THE JAMES PRIZE

A prize of \$20 given by Dr. James of Mattawa to the student judged by his teachers to be the best adapted to apply his medical training in practice.

THE AMERICAN LEGION SCHOLARSHIP

Value \$100. Established by Dr. George Hayunga of New York. To be awarded annually to the member of the Queen's University Contingent of the Canadian Officers' Training Corps who obtains the highest marks on the C.O.T.C. examinations, provided he has obtained high standing in his academic course.

HOSPITAL APPOINTMENTS

Six Interneships at the Kingston General Hospital of twelve months each are available to students of the graduating class. These appointments must be approved by the Board of Governors of the Kingston General Hospital. Application for these appointments must be made to the Secretary of the Faculty not later than December 15th in each year.

Two Clinical Assistantships are available on the staff of the Ontario Hospital for the Insane during the summer. Applications must be made to the Superintendent, by whom the appointments are deter-

mined. Emphasis is laid on the special qualifications necessary for such work.

RICHARDSON FELLOW IN PATHOLOGY—GENERAL HOSPITAL

On the foundation of this Fellowship in 1927, Alice F. Richardson undertook to maintain the annual salary of a clinical Pathologist to the Hospital for a period of five years. Mrs. Richardson died in 1931, but has made provision for the maintenance of the Fellowship. Appointment is open to graduates, preference being given to those who have previously served as Internes or taken special training in Pathology.

Salary, \$50 per month, with rooms and board in Hospital. Appointments may be held for one or more years at the discretion of the Committee. The appointee will have the status of a senior interne in Hospital, and outlining of duties will be under control of a Committee consisting of the Professors of Medicine, Surgery and Pathology.

EXHIBITION OF 1851—SCIENCE RESEARCH SCHOLARSHIP

This scholarship of the annual value of £250 stg., is awarded by Her Majesty's Commissioners for the Exhibition of 1851 to students who have given evidence of capacity for original research, and are under 26 years of age. A given number of scholarships are awarded annually to students in Canada, recommended by the universities approved by the Commissioners.

The nominee must be a British subject, must have been a *bona fide* student of science for three years, must have been a student of the University for a full year immediately before his nomination, must be a student of the University at the time of his nomination, and must pledge himself not to hold any position of emolument whilst holding the scholarship without special permission from the Commissioners. He is recommended to the Commissioners by the Senate of the University. The scholarship will be tenable ordinarily for two years, and in cases of exceptional merit, for three years. The scholar will in the absence of special circumstances be required to proceed to a country other than that in which he received his scientific training and there pursue some investigation likely to promote technical industries or scientific culture. The particular investigation the student proposes to pursue must be stated before a scholarship can be awarded.

THE GEORGE CHRISTIAN HOFFMAN FELLOWSHIPS

The Alpha Fellowship for Pathological Research of \$800 and the Beta Fellowship for extended studies in Surgery of \$600 awarded to recent graduates nominated by the Faculty and approved by the Senate of the University. The awards will be determined by the undergraduate record of the candidates and upon evidence of capacity for original

research. Applications for these Fellowships should be made to the Secretary of the Faculty not later than the first of March in each year.

The applicant must give detailed information regarding his experience since graduation and indicate definitely the work which he plans to do while holding the Fellowship and the institutions in which this work will be carried out.

The holders of the Fellowships shall proceed to some Institution or University in Europe or the United States of America, approved by the Senate of the University, where post-graduate study and research may most advantageously be pursued. The Fellowships may be tenable for a second or even a third year, upon the recommendation of the Faculty.

The George Christian Hoffman Fellowships have been awarded as follows:

In Pathology:—1919, Clifford D. Gallagher, M.B. (1916), M.D., C.M. (1921).

1921, Theo. J. Curphey, M.D., C.M. (1921).

1923, Wm. Susman, B.A., M.D., C.M. (1923).

1926, P. Thomas McIlroy, M.B. (1916), M.D., C.M. (1921).

1927, John H. Orr, M.D., C.M. (1923).

1928, G. Harold Ettinger, B.A., M.D., C.M. (1920)

1929, J. A. Hannah, B.A., M.D., C.M. (1928).

1930, John Mann, M.D., C.M. (1927).

1931, W. Ford Connell, M.D., C.M. (1929).

1932, John T. Tweddell, M.D., C.M. (1931).

1933, Eldon M. Boyd, M.A., M.D., C.M. (1932).

1934, Kenneth A. Roberts, M.D., C.M. (1932).

1935, Joseph Charles Pinch, M.D., C.M. (1933).

1936, Henry James Tweddell, M.D., C.M. (1934).

1937, John Clinton White, M.D., C.M. (1930).

1938, Leslie Sparling Jolliffe, M.D., C.M. (1936).

1939, Edward Douglas Rooke, M.D., C.M. (1937).

1940, James Stuart Young, B.A., M.D., C.M. (1938).

In Surgery: — 1921, Lyon H. Appleby, M.D., C.M. (1919).

1922, Calvert M. Carruthers, M.D., C.M. (1921).

1923, C. Merlin Eynon, M.D., C.M. (1922).

1924, Arnold R. Richards, M.D., C.M. (1923).

1925, N. Roy Houston, M.D., C.M. (1922).

1926, Stuart W. Houston, M.D., C.M. (1924).

1927, John L. McKelvey, B.A., M.D., C.M. (1926).

1928, Nathan E. Berry, M.D., C.M. (1926).

1929, Nathan E. Berry, M.D., C.M. (1926).

- 1930, Geo. C. Ferguson, B.A., M.D., C.M. (1928).
1931, Joseph A. Kearns, M.D., C.M. (1930).
1932, Eldon M. Boyd, M.A., M.D., C.M. (1932).
1933, Lawrence R. LeFave, M.D., C.M. (1932).
1934, Ronald C. Burr, M.D., C.M. (1932).
1935, Gilbert Johnson McKelvey, B.A., M.D. (1932).
1936, James Clifford Samis, M.D., C.M. (1932).
1937, Robert Randolph Mutrie, M.D., C.M. (1934).
1938, Edwin Perry White, M.D., C.M. (1934).
1939, Thomas Neil Tweddell, M.D., C.M. (1936).
1940, Osler Briggs Dickinson, M.D., C.M. (1935).

WILLIAM SPANKIE MEMORIAL MEDICAL RESEARCH ENDOWMENT FUND

The late Dr. William Spankie provided in his Will for a fund "to promote Medical Research at Queen's University under rules and regulations to be determined by the Board of Trustees and approved by the Executors and Trustees of the Estate."

The present income is \$400 a year.

The research must be carried on at Queen's University or in one of the City Hospitals associated with it.

Reports upon research problems assisted by the fund must be submitted to the Committee of Administration.

All applications for grants should be addressed to the Principal.

STUDENT EXCHANGES

It is probable that from time to time student exchanges will be arranged with French and German universities. The scholarship will cover tuition, board and lodging. Applications will be received by the Registrar each year up to March 1st from final year and graduate students.

REQUIREMENTS FOR LICENSE

Kingston is a centre for the Examinations of the Medical Council of Canada. The written examinations are held in one of the University buildings, and the clinical examinations in the General Hospital.

DOMINION OF CANADA

A University Degree does not give the right to practise the profession of Medicine. It is also necessary to conform with the laws pertaining to the practice of Medicine in the province, state or country in which it is proposed to begin practice. The Medical Council of Canada issues a diploma which is accepted for registration in any province of the Dominion.

In order to qualify for the examinations of the Canada Medical Council, the candidate must hold the license of a Provincial Board, or present a certificate from the Registrar of a Provincial Medical Council that he holds a medical degree from an approved Medical College. The announcement of the Medical Council of Canada may be obtained from Dr. J. Fenton Argue, Registrar, 180 Metcalfe Street, Ottawa.

Each province in Canada has a special standard of medical education and special requirements for license. Detailed information as to qualifications for the practice of Medicine in the various provinces may be obtained from the Provincial Registrars, as follows:

Alberta: DR. G. R. JOHNSTON, Room 5, Langman Bldg., 336-8th Avenue West, Calgary.

British Columbia: DR. A. J. MACLACHLAN, 203 Medical Dental Building, Vancouver.

Manitoba: DR. W. G. CAMPBELL, 605 Medical Arts Building, Winnipeg.

New Brunswick: DR. JOHN M. BARRY, 182 Princess Street, Saint John, N.B.

Nova Scotia: DR. H. L. SCAMMELL, Provincial Medical Board of Nova Scotia, Halifax.

Ontario: DR. ROBERT T. NOBLE, 566 University Ave., Toronto.

Prince Edward Island: DR. H. D. JOHNSON, 275 Richmond St., Charlottetown.

Saskatchewan: DR. J. G. K. LINDSAY, 307 Birks Building, Saskatoon.

Quebec: DR. J. E. LABERGE, Le College des Medecins et Chirurgiens de la Province de Québec, 1896 Dorchester Street, Montreal.

GREAT BRITAIN AND IRELAND

The General Council of Medical Education and Registration has general supervision over the various licensing and examining Boards and keeps the Medical Register. The main licensing and examining bodies recognized in Great Britain apart from the universities are as follows:

In England:—The Conjoint Board of the Royal College of Surgeons of England and Royal College of Physicians of London, and the Society of Apothecaries, London. Information can be obtained from the Secretary of the English Conjoint Board, 8-11, Queen Square, Bloomsbury, London, W.C. 1, and the clerk of the Society of Apothecaries, Water Lane, Blackfriars, E.C. 4.

In Ireland:—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Ireland, and the Apothecaries' Hall of Ireland. Information can be obtained from the Secretary of the Irish Conjoint Board, Royal College of Surgeons, Dublin, and the Registrar, Apothecaries' Hall of Ireland, 93, Merrion Square, Dublin.

In Scotland—The Conjoint Board of the Royal Colleges of Physicians and Surgeons of Edinburgh and the Royal Faculty of Physicians and Surgeons of Glasgow. Information can be obtained from the Secretary of the Scottish Conjoint Board, 49, Lauriston Place, Edinburgh.

Certificates of Queen's University Medical Faculty are accepted by these Boards for admission to their examinations, so that those possessing the degree of M.D. from Queen's University are entitled to all the privileges in Great Britain that are accorded to students and graduates of other Colleges and Universities within the Empire.

UNITED STATES

The Journal of the American Medical Association publishes an Abstract of the Laws regulating the Practice of Medicine in the various States and Territories of the United States. The price of the pamphlet is 50c., and it may be obtained by addressing the American Medical Association, 535 North Dearborn Street, Chicago, Ill.

The Medical School is listed as Class A by the Council on Medical Education and Hospitals of the American Medical Association.

COURSES OF INSTRUCTION

ANATOMY

Professor—D. C. MATHESON, M.B.

Assistant Professor—C. R. SALSBURY, M.D., C.M., F.R.C.S.(C).

Lecturer in Embryology—BENJAMIN KROPP, A.M., Ph.D.

Fellow—ARTHUR E. HARBESON, B.A., M.D., C.M. (on leave).

A

DESCRIPTIVE AND PRACTICAL ANATOMY

SECOND YEAR

- (a) The study of the bones and the dissection of the upper extremity.
- (b) The bones of the trunk and dissection of the thorax.
- (c) The bones of the head and dissection of the head and neck.
- (d) Lecture-demonstrations on the parts being dissected with aid of projection apparatus, blackboard drawings, etc., approximately thrice weekly.
- (e) In addition to the above, an elementary course of lectures on the Systematic Anatomy of the body as a whole.

THIRD YEAR

- (a) The study of the bones and the dissection of the lower extremity.
- (b) The dissection of the abdomen and pelvis.
- (c) The study of the nervous system, including the dissection of the brain.
- (d) Lecture-demonstrations on the parts being dissected, about three times weekly, or as often as necessary.
- (e) A review of the work of the second year.

Lectures in neurology are given to the third year once a week throughout the session as well as additional lectures during the period when the brain is being dissected.

Students must dissect the whole of the human body during the course. Preliminary and final oral or practical examinations are required from each student on each part dissected. Besides these, mid-seasonal written examinations are held in December, and final written examinations at the close of the spring term. Students must complete the dissection and take all oral examinations before being allowed to proceed with the final written examinations.

Bones of the head, trunk and upper extremity are loaned to second year students and bones of the lower extremity to third year students.

Arrangements may be made by graduates and others for the use of the dissecting room and for material for special study. Encouragement is given to students of the 4th, 5th and 6th years who wish to do review work in the dissecting room.

TEXT-BOOKS AND BOOKS OF REFERENCE

Cunningham, Gray, Morris, Piersol. *Buchanan's Manual of Anatomy*. Frazer and Robbins: *Manual of Practical Anatomy*. Cunningham: *Manual of Practical Anatomy*. Walmsley: *Practical Anatomy*. Berry: *Practical Anatomy*. Jamieson: *Companion to Anatomy*. Johnston: *Synopsis of Regional Anatomy*. Grant: *A Method of Anatomy*. Wolff: *A Shorter Anatomy*. Howell: *Gross Anatomy*. Frazer: *The Anatomy of the Human Skeleton*. Sobotta-McMurrich: *Atlas of Human Anatomy*. Spalholz: *Hand Atlas of Human Anatomy*. Toldt: *An Atlas of Human Anatomy*. Jamieson: *Illustrations of Regional Anatomy*. Eycleshymer & Schoemaker: *A Cross-section Anatomy*. Ranson: *Anatomy of the Nervous System*. Kuntz: *Neuro-anatomy*. Larsell: *Text-book of Neuro-anatomy and the Sense Organs*. Kuntz: *Autonomic Nervous System*. Arey: *Developmental Anatomy*. Bailey and Miller: *Text-book of Embryology*. Jordan and Kindred: *Embryology*. Simkins: *Text-book of Human Embryology*. Frazer: *Manual of Embryology*. Keith: *Human Embryology and Morphology*. Maximow and Bloom: *Text book of Histology*. Schafer: *Essentials of Histology*. Callander: *Surgical Anatomy*. McGregor: *Synopsis of Surgical Anatomy*. Todd: *Atlas of Skeletal Maturation*. Jamieson: *Dixon's Manual of Human Osteology*. Stibbe: *An Introduction to Physical Anthropology*.

B

EMBRYOLOGY. The course consists of a study of fertilization, cleavage, and organogeny, especially of the mammal, with illustrative material drawn from the chick and pig. Source articles in journals, and monographs, are used for collateral reading. One lecture period and two hours laboratory work each week throughout the second year.

Text: Arey: *Developmental Anatomy*.

References: Embryological references listed under Anatomy, and in addition the following: Boyden: *A Laboratory Atlas of the Pig Embryo*. Keibel and Mall: *Embryology*. McEwen: *A Textbook of Vertebrate Embryology*. Patten: *Embryology of the Chick*. Patten: *Embryology of the Pig*. Wilder: *History of the Human Body*.

C

MEDICAL AND SURGICAL ANATOMY

Professor - - - L. J. AUSTIN, M.Ch., F.R.C.S.Eng.,
F.R.C.S.(C.)

Assistant Professor—S. J. KEYES, M.D., C.M., F.R.C.S.(C.)

Assistant Professor—S. W. HOUSTON, M.D., C.M., F.R.C.S.
(Edin.), F.R.C.S.(C.)

The students are taught to make practical use of the facts of anatomy, and the application of these to medical and surgical practice is shown. Attention is directed to the manner in which the anatomy affects the course and progress of disease, and to the alteration in the anatomical relations in disease. Special attention is given to displacements in fractures and dislocations, topographical anatomy, and ligation of arteries.

APPROVED TEXT-BOOKS

Davis, Treves and Keith, Beesly, Johnson and Bruce. Rawling: *Landmarks and Surface Markings*. C. Latimer Callander: *Surgical Anatomy*.

BACTERIOLOGY

Professor—G. B. REED, M.A., B.Sc., Ph.D., F.R.S.C.

Professor—JOHN H. ORR, M.D., C.M., F.R.C.P.(C.).

THIRD YEAR

1. *General and Pathogenic Bacteriology*. This course covers the general principles of bacteriology. The lectures deal with the structure and physiology of bacteria, the theories of infection and immunity and a systematic study of the pathogenic bacteria. Laboratory practice includes the preparation of culture media and the biochemical, cultural and microscopic study of bacteria. The principal pathogenic bacteria are isolated from hospital material. Infection and immunity are studied experimentally in animals and serological reactions carried out on human material. This will be supplemented by a detailed bacteriological study of selected cases, with laboratory work, prescribed reading and reports.

2. *Parasitology*. A laboratory study of the principal lower animal parasites.

Text-books:—

Zinsser and Bayne-Jones: *Text-Book of Bacteriology*.

Topley and Wilson: *Principles of Bacteriology*.

Chandler: *Animal Parasites of Man*.

SIXTH YEAR

A series of lectures will be given in the sixth year stressing the clinical application of the principles of infection and immunity dealt with in the third year. The various infectious processes will be discussed from the point of view of aetiology, mode of entrance and action in the body of the causal organism. Methods of laboratory diagnosis and specific treatment will be stressed.

ELECTIVE COURSES

1. *Immunology and Physiology of the Bacteria*. Lectures, reading and laboratory practice.

2. *Research*. Properly qualified students who wish to make a special study of Bacteriology are admitted to the laboratory to undertake special problems. This work may be carried out during the session or in the summer, or both.

3. Studies leading to the degree M.Sc.(Med.). The department offers facilities and supervision for graduates who desire to take this degree in Bacteriology.

BIOLOGY

Lecturer—H. WESLEY CURRAN, M.A.

Demonstrator—Warren G. Smith.

FIRST YEAR

1. *General Biology*.—A course of three lectures and six hours of laboratory work per week throughout the session—botany in the first term and zoology in the second.

A general survey of the plant and animal kingdoms with laboratory work on representatives of the main groups. Identification of local plants of medicinal value and of the common animals. A study of parasitology with special attention to those forms which occur in Canada. Comparison of various types of animals with emphasis upon mammalian anatomy. Principles of embryology, physiology, evolution and genetics.

Text-books: Holman and Robbins, *Textbook of General Botany* (John Wiley and Sons, fourth edition). Hegner, *College Zoology* (Macmillan, fourth edition).

BIOCHEMISTRY

Professor—R. GORDON SINCLAIR, B.A., Ph.D.

Associate Professor—J. F. LOGAN, M.A., Ph.D.

THIRD YEAR

This course is designed to bring out the general chemical principles underlying such processes as respiration, acid-base balance, water exchange, absorption and excretion and as well to cover in a fairly comprehensive manner the composition and function of the constituents of living things and of the foods which they require. Particular attention is paid to the biochemistry of the human organism. The relationship to clinical medicine is brought out by the discussion of the chemical basis of certain diseases, illustrated by hospital cases.

Text-books:

Williams: *A Textbook of Biochemistry*.

Bodansky: *Introduction to Physiological Chemistry*.

Hawk and Bergeim: *Practical Physiological Chemistry*.

Reference Books:

Cameron and Gilmour: *The Biochemistry of Medicine*.

Lusk: *The Science of Nutrition*.

Harrow and Sherwin: *A Text-book of Biochemistry*.

SIXTH YEAR

A weekly lecture or conference devoted to a discussion of pathological chemistry and of chemical aids to diagnosis and treatment.

Reference books:—Wells: *Chemical Pathology*. Beaumont and Dodds: *Recent Advances in Medicine*. Campbell and MacLeod: *Insulin and Diabetes*. MacLean: *Modern Methods in the Diagnosis and Treatment of Renal Disease*. Rehfus: *Diseases of the Stomach*. MacLean: *Modern Views on Digestion and Gastric Disease*. Stewart and Dunlop: *Clinical Chemistry in Practical Medicine*. Joslin: *The Treatment of Diabetes Mellitus*. Cameron and Gilmour: *Biochemistry of Medicine*.

CHEMISTRY

Associate Professor of Biochemistry—J. F. LOGAN, M.A., Ph.D.

Lecturer in General Chemistry—E. G. TAYLOR, Sc.M., Ph.D.

The lecture and laboratory classes in General and Organic Chemistry are conducted in Gordon Hall.

Examinations are held at intervals during the session and the standing of the student is determined by the results of these examinations and by the character of his laboratory work, as well as by the grade obtained at the annual examination.

No student is admitted to the annual examination who has failed to attain a certain standard in the laboratory exercises.

A laboratory deposit of \$10 for each course is required to cover breakage of apparatus and damage to laboratory property and must be paid to the Treasurer of the University before a locker will be assigned.

FIRST YEAR

1. *General Chemistry and Analysis.*

(a) A course of three lectures per week on the fundamental laws and theories of these two subjects. This course includes a description of the common elements and compounds and a discussion of elementary qualitative analysis. The lectures are illustrated by demonstrations and laboratory exercises.

(b) A course of six hours per week of laboratory exercises. These exercises provide training in laboratory technique and include elementary qualitative and volumetric analysis.

Text-books:

Brinkley, *Introductory General Chemistry.*

Watts and Chew, *An Intermediate Course in Volumetric Analysis.*

Collegiate chemistry A 1 (Arts Calendar) will not be accepted as equivalent to the first year medical chemistry unless offered in conjunction with the course in qualitative analysis, A 2.

SECOND YEAR

2. *Organic Chemistry.*

Three lectures, and one laboratory period of three hours per week are given until the student is well grounded in the fundamentals of Organic Chemistry, essential to the proper understanding of Biochemistry and its related sciences. Both aliphatic and aromatic compounds are prepared, and their properties and reactions discussed. Throughout the course emphasis is placed upon structural relationships of all compounds. In the latter part of the year the time is devoted to a detailed study of the carbohydrates, fats and proteins, as an introduction to the major course in Biochemistry of the following year.

Text-books:—Lowy and Harrow: *Introduction to Organic Chemistry.* Fisher: *Laboratory Manual of Organic Chemistry*; or, Lowy and Baldwin: *A Laboratory Manual of Organic Chemistry.*

ENGLISH

Professor—J. A. ROY, M.A.(Edin.).

The Department of English provides a course (English M) which must be taken by all first year Medical students. During the session one hour a week is devoted to the practice and technique of public speaking. Every student must take part during the term. He is allowed to select his own subject, and at the close of the hour the lecturer offers friendly and constructive criticism of his effort.

Prescribed texts:—

Foerster and Steadman, *Writing and Thinking* (Boston: Houghton Mifflin Company).

Hudson, Hurley and Clark, *Models of Exposition* (Toronto: Thomas Nelson and Sons).

The Concise Oxford Dictionary. (Toronto: Oxford University Press).

Students must also read during the session a number of works by standard authors, e.g., *The Doctor's Dilemma*, *The Anatomist*, *Journal of the Plague Year*, etc., etc. This list will be announced at the beginning of the term.

EYE, EAR, NOSE AND THROAT

F. A. CAYS, M.D., C.M., F.R.C.S.(C.)—

Professor (Division of Oto-laryngology).

H. P. FOLGER, B.A., M.D., C.M.—

Associate Professor (Division of Ophthalmology).

F. X. O'CONNOR, M.D., C.M.—*Clinical Assistant.*

The course of instruction is carried on in the Kingston General Hospital. There is both an In-door and Out-door service. A large Clinic room, in which there are three cubicles, is used for clinics and for teaching the examination of patients.

This course is carried on during both fifth and sixth years.

Most of the work is clinical and in addition to this, a series of lectures is delivered upon the various diseases of the Eye, Ear, Nose and Throat.

Text-books:—May, Parsons, Gifford, Logan Turner, Morrison.

Reference Books:—Brown, Fuchs, Ball, de Schweinitz, St. Clair Thomson, Berens, Phillips, Kopetzky and Jackson, Imperatori, Portman.

HISTORY OF MEDICINE

Professor—THOMAS GIBSON, M.A., M.B., C.M., Edin., F.R.C.P.(C.).

FOURTH YEAR

This course consists of a weekly series of informal talks illustrative of the great episodes in the History of Medicine. Interest naturally centres around the lives of the great path finders, and the fresh truths they gave the world.

As far as possible these are exemplified by quotations from their writings, from Hippocrates to Lister.

MEDICINE AND CLINICAL MEDICINE

Professor—W. T. CONNELL, M.D., F.R.C.P.(C.).

Associate Professor—W. FORD CONNELL, M.D.,
M.R.C.P. (Lond.), F.R.C.P.(C.).

Assistant Professor—B. H. HOPKINS, M.B.

Assistant Professor (in charge of Psychological Medicine)—
C. H. McCUAIG, M.D.

Lecturer—J. R. THIRD, B.A., M.D.

Lecturer—S. ROBINSON, M.D.

Clinical Assistant—A. BOCHNER, M.D.

Fellow—J. T. TWEDDELL, M.D.

FOURTH YEAR

1. *Physical Diagnosis...*

This course covers the principles and methods of physical diagnosis. It consists of one weekly lecture and two hours per week of clinical instruction.

2. *Infectious Diseases.*

Lectures are given for one hour weekly on the various infectious diseases. Opportunity is taken to demonstrate examples of these conditions in the wards of the Isolation and General Hospitals.

3. *Diseases of the Blood, Lymph Nodes and Spleen.*

One hour per week is spent in the discussion of these diseases.

4. *Metabolic Diseases.*

In association with the class work in Pathological Chemistry, one hour per week is devoted to the clinical discussion of the Diseases of Metabolism.

FIFTH YEAR

The work of the fifth year is mainly clinical. Students are required to work in the wards under the supervision of the Fellows in Medicine, and to prepare a number of clinical cases during the session. The class is divided into small sections for ward teaching on which several hour periods are spent each week.

A review of the main systemic diseases, their etiology, course, symptoms, diagnosis and treatment is also carried out during the session.

SIXTH YEAR

Work during this year is carried on in the Hospital wards and by clinical demonstrations in the lecture theatre.

TEXT-BOOKS

Clinical Methods and Casetaking:

Cabot and Adams, *Physical Diagnosis*; Clendening, *Work Book in Elementary Diagnosis*; Chamberlain, *Symptoms and Signs in Clinical Medicine*; Major, *Physical Diagnosis*; Sutton, *Physical Diagnosis*; Hutchison and Hunter, *Clinical Methods*.

Practice of Medicine: Recommended Text: Price.

Acceptable Substitutes: Meakins; Cecil; Conybeare; Musser; Osler and Christian.

Skin Diseases:

Dore and Franklin, *Common Diseases of the Skin*; MacKenna, *Skin Diseases*; Walker, *Introduction to Dermatology*; Andrews, *Skin Diseases*; Semon and Moritz, *An Atlas of the Commoner Skin Diseases*.

Haematology.

Haden, *Principles of Haematology*.

Nervous Diseases:

Bing and Haymaker, *Text Book of Nervous Diseases*; Grinker, *Neurology*; Wechsler, *Text of Clinical Neurology*; Brain, *Diseases of the Nervous System*; Brock, *The Basis of Clinical Neurology*; Purves Stewart, *The Diagnosis of Nervous Diseases*; Spurling, *Practical Neurological Diagnosis*.

Heart Diseases:

Lewis, *Diseases of the Heart*; White, *Heart Disease*; Levine, *Clinical Heart Disease*; *Nomenclature and Criteria for Diagnosis of Diseases of the Heart* (New York Heart Association); *Modern Concepts of Cardiovascular Disease* (American Heart Association).

Therapy:

Beckman, *Treatment in General Practice*; Bellingham-Smith and Feiling, *Modern Medical Treatment*; Dunlop, Davidson and McNee, *Text Book of Medical Treatment*.

Dietetics:

McLester, *Nutrition and Diet in Health and Disease*; Harrop, *Diet in Disease*; Hutchison and Matham, *Food and the Principles of Dietetics*.

Endocrinology:

Cameron, *Recent Advances in Endocrinology*; Wolf, *Endocrinology in Modern Practice*; Means, *Thyroid and Its Diseases*.

BOOKS OF REFERENCE

French, *Differential Diagnosis*; Tidy, *Index of Symptomatology*; Ker, *Infectious Diseases*; Rolleston, *Infectious Diseases*; Norris and Landis, *Diseases of the Chest*; Savill, *Clinical Medicine*; *International Clinics* (Lippincott); Rabinovitch, *Diabetes Mellitus*; Lawrence, *The Diabetic Life*.

OBSTETRICS AND GYNAECOLOGY

Professor—EDWIN M. ROBERTSON, M.B., Ch.B., M.R.C.O.G., F.R.C.S.
(Edin.).

Assistant Professor—F. J. O'CONNOR, M.D., C.M. (Division of Obstetrics)

Assistant Professor—PRESLEY A. MCLEOD, B.A., M.D., C.M., M.R.C.O.G.

Clinical Assistants—GORDON MYLKS, B.A., M.D., C.M., F.A.C.S.

P. H. HUYCK, M.D., C.M. (Division of Obstetrics).

C. W. BENNETT, M.D., C.M. (Division of Obstetrics)

FOURTH YEAR

Lectures and demonstrations deal with the anatomy and physiology of the female organs of reproduction and the anatomy of the pelvis.

FIFTH YEAR

The course of instruction is devoted (a) to the physiology of pregnancy, parturition and the puerperal state, prenatal care and management during labour and the puerperium, and (b) to the diseases and disorders of the female pelvic organs and associated endocrinological disorders.

Clinical instruction is given in minor gynaecological procedures, the use of pessaries, douches, the cautery, etc., and special methods of investigation. The cinematograph is used to illustrate the lectures on parturition and gynaecological operations.

Tutorial classes are held weekly.

SIXTH YEAR

Instruction during the sixth year is mainly clinical. Clinics and practical instruction are given in the maternity and gynaecological wards of the hospitals daily.

In addition, the class is taken in small sections on practical obstetrics in the wards during the day and night throughout the session.

Two hours a week are devoted to lectures on the pathology of pregnancy, parturition and the puerperium. The cinematograph is used frequently so that mechanisms, management, manipulations and operative technique may be studied closely and discussed.

Tutorial classes are held for revision and, also, drill with the manikin.

APPROVED TEXT-BOOKS

Obstetrics: Schumann, Stander, De Lee, Browne, Eden and Holland, Zabriskie (very useful for domiciliary midwifery).
Gynaecology: Curtis, Shaw, Young, Crossen, Eden and Lockyer.

MEDICAL JURISPRUDENCE

Lecturer—P. M. MACDONNELL, M.A., M.D., C.M.

Lecturer—T. J. RIGNEY, B.A., K.C.

FIFTH YEAR

The course in Jurisprudence includes the following: legal criminal procedure; Coroner's court; medical evidence, identity; modes of dying; sudden death, signs of death; homicide, suicide; wounds, burns and scalds; suffocation, hanging and strangling; drowning, death from starvation, cold and heat, lightning and electricity; marriage and divorce; offences against chastity; pregnancy and delivery; criminal abortion; infanticide, causes of death to the foetus; legitimacy, impotence, sterility; malingering and feigned diseases; survivorship, life assurance, wills, malpractice; Workmen's Compensation Act.

A short course deals with Toxicology or the science of poisons embracing the detection and treatment of criminal and accidental cases.

BOOKS OF REFERENCE

Taylor; Hamilton; Peterson, Haines and Webster; Buchanan; Sidney Smith; Glaister.

PATHOLOGY

Professor—JAMES MILLER, M.D., D.Sc., F.R.C.P.(Ed.), F.R.C.P.(C), F.R.S.C.

Associate Professor—W. D. HAY, M.A., M.D., C.M.

Assistant Curators of Museum—C. R. SALSURY, M.D., F.R.C.S.(C),

GORDON MYLKS, B.A., M.D., C.M., J. T. TWEDDELL, M.D., C.M.

Fellow in Pathology—E. T. GREEN, M.D., C.M.,

Richardson Fellow in Clinical Pathology—J. W. ADAMS, M.D., C.M.

FOURTH YEAR

1. *General Pathology*. Students of the fourth year attend a course of lectures and demonstrations in General Pathology covering three hours per week. Two additional hours per week are spent in the laboratory studying microscopic preparations illustrating the matter discussed in the lectures.

Books—Obligatory Text: Boyd or Muir.

References: Miller, MacCallum.

2. *Clinical Microscopy*. Three hours per week are spent in chemical and microscopical examination of urine, blood, gastric contents, faeces, exudates, transudates, cerebro-spinal fluid, and animal parasites.

Books—Obligatory Text: Osgood.

References: Stitt, Kracke, Magner, Levinson & McFate.

FIFTH YEAR

3. *Pathology and Morbid Anatomy*. Students of the fifth year attend a series of lectures and demonstrations in Pathology and Morbid Anatomy occupying five hours per week during the session. Two hours are devoted to lectures, one to practical work, mainly microscopic in character, and one to museum work.

Students in rotation assist in making autopsies and are required to furnish during the course of the fourth, fifth and sixth years reports on eight cases, including in these reports the clinical history, morbid anatomy and histology and pathology of the case, along with a critical review of the pathogenesis and the causes of death. Two of the cases must be handed in during the fourth year, three in the fifth and three in the sixth. These cases are marked and annotated by the members of the medical, surgical and pathological staffs, and the marks obtained recorded. No student is allowed to complete his course who has not obtained at least 60% of marks over the whole series.

Books—Obligatory Text: Boyd or Muir.

References: MacCallum, Delafield and Prudden, Hadfield and Garrod, Miller, Best and Taylor.

SIXTH YEAR

4. A course of lectures and practical work, two hours per week, in Serology is given during the latter half of the session. This course is intended to prepare the practitioner for sending in material to a public health laboratory and for the interpretation of the reports. The matters of carrying out of skin tests, the preparation and use of vaccines and immune sera are also dealt with practically.

Books—Reference: Topley and Wilson, Muir, MacCallum, Delafield and Prudden, Miller, Boyd, Hadfield and Garrod.

Clinico-pathological Conferences.—Conferences on medical and surgical cases in their clinical, pathological and bacteriological aspects are held each Saturday morning throughout the session. These are open to students of the fourth, fifth and sixth years. The cases brought up at these conferences form the basis of the reports mentioned above.

Students in the fourth, fifth and sixth years are required to assist and scribe at autopsies and to have cards filled for the same. These cards are to be returned to the Department of Pathology before the examination in Pathology of the Final Year.

PEDIATRICS

Professor of Pediatrics—R. R. MACGREGOR, M.D., F.R.C.P.(C.).
Clinical Assistant—J. S. DELAHAYE, M.D., C.M.

This course is taken in the fifth and sixth years, and is chiefly a clinical one. Instruction is given in the general care, management and feeding of infants and young children; the clinical investigation of diseases of infants and young children with management and treatment; injuries and diseases of the newly born; derangements of nutrition; and practical demonstrations in the preparation of infant foods.

A limited number of students is allowed to visit twice weekly the well baby clinic of the Victorian Order of Nurses, where instruction is given in the care and feeding of well infants and in immunization against certain diseases.

Text-books: Holt and McIntosh, Grulee.

BOOKS OF REFERENCE

Griffith, Abt, Still, Hutchison, Dennett, Feer, Porter and Carter, Garrod Batten and Thurshfield.

PHARMACOLOGY

Professor—ELDON M. BOYD, M.A., M.D., C.M.
Fellow—R. B. SUTHERLAND, M.D., C.M.
Fellow—A. L. SEGAL, M.D., C.M.
Demonstrator in Pharmacy—W. G. GRANT, Phm.B.

1. *Endocrinology.* A course of one lecture per week, assigned reading, essays or laboratory work and discussions on the functions of the endocrine glands.

BOOKS OF REFERENCE

Crotti: *Diseases of the Thyroid, Parathyroid and Thymus*; Fisher, Ingram and Ranson: *Diabetes insipidus*; Grollman: *The Adrenals*; Jensen: *Insulin, Its Chemistry and Physiology*; Kurzrok: *The Endocrines in Obstetrics and Gynaecology*; Means: *The Thyroid*; Peters: *Body Water*; Symposium: *The Pituitary Gland*; Van Dyke: *The Physiology and Pharmacology of the Pituitary Body*.

2. *Experimental Pharmacology*. A course of three hours per week in the Pharmacological Laboratory demonstrating on the living tissues of animals the action of typical drugs described concurrently in the lectures on *Materia Medica*.

BOOKS OF REFERENCE

Jackson: *Experimental Pharmacology*; Sollmann and Hanzlik: *Experimental Pharmacology*.

3. *Materia Medica*. A course of three lectures per week on the history, chemistry, metabolism, systemic action, toxicology, therapeutic uses and method of administration of pharmacopœial and newer drugs arranged according to that system of the body upon which their chief therapeutic action occurs.

BOOKS OF REFERENCE

Bastedo: *Materia Medica*; Bethea: *Materia Medica*; *British Pharmacopoeia and B.P. Addendum*; Cushny: *Pharmacology and Therapeutics*; Bruce and Dilling: *Materia Medica*; Douthwaite: *Materia Medica*.

4. *Pharmacy*. A course of approximately thirty hours in which are considered the essentials of pharmacognosy, pharmaceutical chemistry, compounding and dispensing necessary for a knowledge of prescription writing. Forty to fifty prescriptions will be dispensed and in addition over one hundred prescriptions will be individually written or criticized by each student.

BOOKS OF REFERENCE

Eggleston: *Essentials of Prescription Writing*; Solomon: *Prescription Writing and Formulary*; Stephenson: *Incompatibility in Prescriptions*; Thornton: *Medical Formulary*.

5. *Research in Endocrinology*. Laboratory facilities are available to qualified students for the purpose of advanced study and investigation of the functions of the endocrine glands. A limited number of students will be admitted to this course and the programme of work will be individually arranged.

6. *Research in Pharmacology*. An optional and advanced course similar to that of number 5 in any branch of Pharmacology.

PHYSICS

The Robert Waddell Professor of Experimental Physics—

J. K. ROBERTSON, M.A., F.R.S.C.

*Assistant Professor—*B. W. SARGENT, Ph.D.

FIRST YEAR

1. *Elementary Physics.*

(a) A course of three lectures per week throughout the year. The course includes lectures on Statics, Dynamics, Properties of Matter, Heat, Sound and Light. Special emphasis is given to such subjects as Surface Tension, Osmotic Pressure, and some of the physical properties of Colloidal Solutions. While the course is one on the fundamental laws of Physics, examples of the application of these laws to Medicine are introduced wherever it seems advisable to do so.

(b) Two hours per week in the laboratory.

Text-book: Stewart, *Physics* (Ginn & Co.).

SECOND YEAR

2. *Electricity and Magnetism, Conduction of Electricity through Gases, Roentgen Rays and Radioactivity.*

(a) A course of two lectures per week in which a thorough elementary treatment of the above subjects is given. In the latter half of the course the lectures are designed to familiarize the student with modern X-ray equipment and its operation, as well as with the physical nature of radiations of therapeutic value.

(b) *Laboratory*—Two hours per week.

Text-books:—

Stewart: *Physics* (Ginn & Co.).

Robertson: *X-Rays and X-Ray Apparatus* (Macmillan, N.Y.).

Robertson: *Atomic Artillery* (D. Van Nostrand Co., N.Y.).

PHYSIOLOGY

*Professor—*G. SPENCER MELVIN, M.D. (Aberd.).

*Professor—*G. HAROLD ETTINGER, B.A., M.D., C.M.

*Fellow—*M. E. M. SAWYER, B.A., M.A., Ph.D.

SECOND YEAR

1. *Histology.* A detailed study is made of the principal tissues of the body, by an examination of fresh preparations and mounted specimens. This is followed by a study of the structure of the organs of the body.

A collection of mounted slides is provided.

Text-books:—Jordan: *Text-book of Histology*.

Maximow and Bloom: *Text-book of Histology*.

Schafer: *Essentials of Histology*.

Books of Reference—Cowdry: *Special Cytology*. Quain's *Anatomy*: Vol. II, Pt. I—*Microscopic Anatomy*. Bolles Lee: *Microtomists Vade Mecum*. McClung: *Microscopical Technique*.

THIRD YEAR

2. *Experimental Physiology*. (a) A laboratory course is given in the dynamics of muscle and nerve, the nervous system, circulation, respiration, digestion, secretion, excretion, etc. (b) Students are arranged in small groups to carry out a number of survival experiments in the study of the endocrines. They are responsible for the operative work and are required to keep records and to undertake the necessary investigation during the progress of the experiment.

3. *Physiology*. The subject is treated systematically and is supplemented by demonstrations and by the work in the experimental class. Special emphasis is laid on the application of Physiology to clinical study.

Text-books:—Starling: *Human Physiology*.

Bard: *McLeod's Physiology in Modern Medicine*.

Best and Taylor: *Physiological Basis for the Practice of Medicine*.

Books of Reference:—Bayliss: *Principles of General Physiology*. Newton: *Recent Advances in Physiology*. Schafer: *Text-book of Physiology*. Wiggers: *Physiology in Health and Disease*. Wright: *Applied Physiology*. Cameron: *Recent Advances in Endocrinology*. Schafer: *The Endocrine Glands*. Marshall: *Physiology of Reproduction*. Robson: *Recent Advances in Reproductive Physiology*. Cannon: *Mechanical Factors of Digestion*. Pavlov: *Work of the Digestive Glands*. Sherrington: *Integrative Action of the Nervous System*. Tilney and Riley: *The Form and Functions of the Central Nervous System*. Liddell and Sherrington: *Mammalian Physiology*. Markowitz: *Text-book of Experimental Surgery*.

OPTIONAL COURSES

4. (a) *Graduate studies leading to the Degree M.Sc.(Med.)*.

The department offers instruction and research supervision and facilities for graduates who desire to take this degree in Physiology.

(b) *Research in Physiology*.

Properly qualified students are admitted to the laboratory for post-graduate study and special research, even if not proceeding to a degree. This work may be done during the summer months, as well as during the teaching session.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

The Arthur R. Elliott Professor—JOHN WYLLIE, M.A., M.D.,
B.Sc. (Glasgow),
D.P.H. (Cambridge).

Lecturer—R. S. PEAT, M.D., D.P.H. (Tor.).

FIELD COURSE:

Outdoor visits to Public Health Schemes are arranged during the term September to December in the *4th Year*. The visits include inspection of Water Supply Schemes, Sewage Disposal Plants, Ventilating and Heating Systems in schools, colleges and factories, an Incinerator Plant, a model Dairy Farm, a Pasteurizing plant, Food establishments, a Storage-battery plant, a Tile factory, and a Printing Press.

The expenses incurred in the outdoor visits along with the cost of material supplied in class to each student, are deducted from the sessional deposit.

During the term January to April arrangements are made for small groups of students to attend a Child Welfare clinic, a Tuberculosis clinic, and a Mental Health clinic.

LECTURE COURSE I:

Medical students in their *5th Year* of study attend a course of didactic lectures during the term September to December, dealing with the sanitary aspects of Public Health.

The following subjects are discussed and illustrated with lantern slides: air and ventilation, heating and lighting, water and water supply, domestic and community sanitation, school hygiene, industrial hygiene and diseases.

Laboratory demonstrations of chemical and bacteriological analyses of water and milk are also given.

LECTURE COURSE II:

Medical students in their *6th Year* of study attend a course of didactic lectures on vital statistics and on the preventive and epidemiological aspects of communicable diseases during the term January to April. Laboratory demonstrations are given of methods for the detection of poisons and preservatives in foods, and microscopical exhibits of parasites in meat and the chief insect vectors of disease.

In co-operation with the Medical Officers of Health of Toronto, Ottawa and Hamilton, students are sent in pairs to one of these centres for a week's instruction in clinical Preventive Medicine. Half of the total averaged cost is charged against the sessional deposits.

BOOKS OF REFERENCE

Currie: *Manual of Hygiene*. Rosenau: *Preventive Medicine and Hygiene*. Bigger: *Handbook of Hygiene*. Prescott and Horwood: *Sedgwick's Principles of Sanitary Science and Public Health*. Boyd: *Preventive Medicine*.

PSYCHIATRY

Assistant Professor of Medicine, Head of Department of

Psychiatry—C. H. MCCUAIG, M.D., C.M.

Professor—E. A. CLARK, M.D., C.M.

Assistant Professor—C. M. CRAWFORD, B.A., M.D., C.M., F.A.C.P.

Instruction in Psychiatry is given in both fifth and sixth years.

In the fifth year it consists of:—

Lectures and demonstrations in psychopathology and abnormal psychology having an especial bearing upon the psychoses and psychoneuroses. In this course an attempt will be made to demonstrate to the student the abnormalities of the various psychological functions, the constitutional reaction types, the personality deviations and the commoner mental mechanisms.

Instruction in the sixth year will consist of:—

Lectures and clinics outlining the symptom-complexes shown in the various forms of mental disorder. This course will be made largely clinical and will be illustrated extensively from the abundant material available in the wards of the Ontario Hospital. Special emphasis will be given to the psychiatric components of general medical and surgical diseases and to the somatic factors in the various mental disorders.

Text-books in Psychiatry:—

Henderson and Gillespie: *Text-book of Psychiatry*. White: *Outlines of Psychiatry*. Strecker and Ebaugh: *Practical Clinical Psychiatry*. Bleuler: *Text-book of Psychiatry*. Rosanoff: *Manual of Psychiatry*. Craig and Beaton: *Psychological Medicine*.

Text-books in Abnormal Psychology:—

Bridges: *Psychology, Normal and Abnormal*, 1930. Fisher: *Introduction to Abnormal Psychology*, 1929. McDougall: *Outline of Abnormal Psychology*, 1926.

PSYCHOLOGY

Professor—GEORGE HUMPHREY, M.A., Ph.D.

Assistant Professor—C. M. CRAWFORD, B.A., M.D., C.M.,
F.A.C.P.

SECOND YEAR

The course in Psychology for second year students consists of lectures and lantern demonstrations dealing with such subjects as: *sensation, perception, attention, learning, thinking, memory, fatigue, personality and intelligence*. An attempt is made to present the subject both from the introspectionist and behaviouristic view-points, to give the subject a distinctively medical flavour and to adduce illustrations of especial interest to medical students. This course is in preparation for a later course in psychopathology which is given in the fifth year.

Books recommended:

- Murphy, G.: *A Briefer General Psychology*, 1935 (Harper & Bros.).
Bridges, J. W.: *Psychology Normal and Abnormal*, 1930 (Appleton).
Pillsbury, W. B.: *Essentials of Psychology*, 1930 (Macmillan).

RADIOLOGY AND PHYSICAL THERAPY

- Professor*—W. A. JONES, M.D., F.R.C.P.(C.), F.F.R.(Lond.).
(on leave of absence).
Lecturer—R. C. BURR, M.D., C.M., F.R.C.S. (Edin.).

FIFTH YEAR

One hour each week is given over to practical demonstration of X-ray films and lectures on radiographic diagnosis and radiotherapy.

One hour a week is used for classes in Physical Therapy. These classes include lectures on, and demonstrations of, all the standard physical therapeutic measures, and of manipulative therapy.

SIXTH YEAR

One hour each week is used for lectures in diagnostic radiology and radiotherapy and for clinical radium-therapy and practical film interpretation.

Note also, course of instruction to second year students in "Electricity and Magnetism, conduction of electricity through gases, Roentgen Rays and Radioactivity," given by Department of Physics.

BOOKS OF REFERENCE

McKendrick and Whittaker: *An X-ray Atlas of the Body*. Holmes and Ruggles: *Roentgen Interpretation*. Rhinehart: *Roentgenographic Technique*. Kaplan: *Practical Radiation Therapy*. Kohler: *Roentgenology*. Colwell and Russ: *X-ray and Radium Injuries*. Roberts: *The Principles and Practice of X-ray Therapy*. Mayneord: *The Physics of X-ray Therapy*. Robertson: *X-rays and X-ray Apparatus*. Harrison: *Textbook of Roentgenology*. Golden: *Diagnostic Roentgenology*. Shanks, Kerley, Twining: *A Textbook of X-ray Diagnosis*. Wolf: *Textbook of Physical Therapy*. Bierman: *The Medical Applications of the Short Wave Current*. McKee: *X-rays and radium in the Treatment of Diseases of the Skin*. Delario: *Roentgen and Radium Therapy*.

SURGERY

- Professor*—L. J. AUSTIN, M.Ch., F.R.C.S.(C), F.R.C.S.
Professor—F. ETHERINGTON, M.D., F.R.C.S.(C.).
Assistant Professor—S. J. KEYES, M.D., F.R.C.S.(C.).
Assistant Professor—S. W. HOUSTON, M.D., F.R.C.S.(Edin.),
F.R.C.S.(C.).
Assistant Professor—D. W. BOUCHER, M.D., F.R.C.S.(Edin.).
Clinical Assistant—BASIL M. KOSTER, M.D.

FOURTH YEAR

The student is first brought in contact with hospital cases in the fourth year.

FIFTH YEAR

In the fifth year clinics are held at the General Hospital, Hotel Dieu and Ontario Hospital and the work of this year is almost entirely clinical. Special instruction is also given in operative work in which the students assist in rotation and a few lectures are delivered on systematic surgery.

SIXTH YEAR

The sixth year is devoted chiefly to clinical surgery.

Special courses are also given at the General Hospital in the use of the cystoscope and urethral catheterization by Dr. Berry and in anesthesia by Dr. Angrove and staff.

Clinics are held at the Kingston General Hospital, Rockwood Hospital and Hotel Dieu. In addition every possible opportunity is afforded the student throughout the session to attend operations performed by the members of the staff at the different hospitals, a limited number of the students being permitted to view the operation from the floor.

Operative Surgery.

A special class in Operative Surgery is held for 10 weeks during the final year. Amputations and such other operations as may be demonstrated on the cadaver are performed by the students in rotation.

APPROVED TEXT-BOOKS

Rose and Carless: Thomson, Miles and Wilkie; Romanis and Mitchiner; Dandley and Perritt.

Fractures:—Magnusen.

Operative:—Kirschner.

Reference Books:—Bickham, *Surgery*. Nelson, *Surgery*. Lewis, *Practice of Surgery*. *Surgical Clinics of North America*.

UROLOGY

Assistant Professor—N. E. BERRY, M.D.

FIFTH YEAR

A course of lectures is given of one hour a week covering venereal diseases and general urology.

The students attend, in rotation, the general venereal clinic.

SIXTH YEAR

The course consists of one hour per week and is devoted largely to clinical and operative urology. An attempt is made to familiarize the student with simple instrumental procedures by taking the students in small groups.

BOOKS OF REFERENCE

Eisendrath and Rolnick: *Urology*. Young: *Genital Anomalies and Hermaphroditism*. LeComte: *Manual of Urology*. Stokes: *Modern Clinical Syphilology*.

DEGREES CONFERRED

DEGREES CONFERRED AT THE ANNUAL CONVOCATION, MAY, 1939

James Joseph Barry
Robert Glenn Bell
Stanley John Bociek
Kenneth James Clark
James Ralph Clark
Theodore Henry Coffey
Harold William Conran
John Soper Crawford
Alfred Burton Dixon
George Herbert Emery
Harold Vincent Hughes
John Arthur Irving
Maurice Martin James
John Leonard Johnston
George Frederick Aborn Kipkie
George Eugene Large
Francis Martin
Archibald John Draper Medley
Hugh McRae Munro
James Guthrie McCarroll
Arthur Goodwin Macdonald

Donald Cameron MacDonald
William Kenneth MacDonald
Timothy William McParland
Allan Francis McRoberts
Rudolph Frank Ohlke
Brendan Aloysius O'Neil
Stephen Paul Pakozdy
Alfredo Augusto Perea
(in absentia)
Richard Thomas Potter
Eric Douglas Rathbone
Lloyd George Reid
George Ducolon Scott
James Merritt Shapley
Vincent William Smith
John Henry Smyth
Gordon Harvey Sprague
James William Stevenson
Robert Bruce Sutherland
Harry Le Roy Thoman
Gordon Karl Trotter.

DEGREES CONFERRED IN THE FALL OF 1939

Shirley Ebenezer Bishop
Thomas George Taylor Davis

John Pius McCabe
Ernest Alfred Watkinson

MEDALLISTS AND HOLDERS OF SCHOLARSHIPS AND PRIZES

MEDALISTS IN MEDICINE

- | | |
|--------------------------------|--------------------------------|
| 1936 Leslie Sparling Jolliffe | 1938 George Malcolm Brown |
| 1937 Borden Chamberlain Miller | 1939 Timothy William McParland |

MEDALISTS IN SURGERY

- | | |
|---------------------------|------------------------------|
| 1936 Thomas Neil Tweddell | 1938 William John Ewen |
| 1937 Edward Douglas Rooke | 1939 Robert Bruce Sutherland |

THE N. F. DUPUIS SCHOLARSHIP

- | | |
|--------------------------------|-----------------------------|
| 1936 Timothy William McParland | 1939 Chester Raymond McLean |
| 1937 Herman Sobol | and Morley Alvin Weaver |
| 1938 Charles Franklin Egan | (equal) |

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP

- | | |
|--|--------------------------------|
| 1936 Howard Garfield Kelly | 1939 Roderick William Dingwall |
| 1937 Charles Wendell Kelly | and William Adam Young |
| 1938 William Henry Merrilees and
Chester Raymond McLean | (equal) |
| (equal) | |

THE DEAN FOWLER SCHOLARSHIP

- | | |
|---------------------------|--------------------------------|
| 1936 George Malcolm Brown | 1938 George Malcolm Brown |
| 1937 Edward Douglas Rooke | 1939 Timothy William McParland |

THE ROBERT BRUCE SCHOLARSHIP

- | | |
|-----------------------------|--------------------------------|
| 1936 Arthur Hugh Megill | 1938 Roderick William Dingwall |
| 1937 Chester Raymond McLean | 1939 William Hugh McClenahan |

THE DAVID EDWARD MUNDELL PRIZE

- | | |
|-------------------------|--------------------------------|
| 1936 James Boyd Roberts | 1938 George Malcolm Brown |
| 1937 Melville Swartz | 1939 Timothy William McParland |

THE REUBEN WELLS LEONARD SCHOLARSHIP

- | | |
|---------------------------|--------------------------------|
| 1936 Edward Douglas Rooke | 1938 Timothy William McParland |
| 1937 George Malcolm Brown | 1939 Howard Garfield Kelly |

CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE PRIZE

- | | |
|-------------------------------|-------------------------------|
| 1936 Emanuel Mortimer Gherman | 1938 Ernest Anderson Johnson |
| 1937 Donald MacKillican Frick | 1939 Donald Cameron MacDonald |
| Biehn | |

THE BOAK SCHOLARSHIP

- | | |
|-------------------------------|---------------------------------|
| 1936 Donald Cameron MacDonald | 1938 Grant Colville Beacock and |
| 1937 Franklin Tweedie Miles | Charles Franklin Egan |
| | (equal) |
| | 1939 Chester Raymond McLean |

DR. M. JAMES' PRIZE

- | | |
|--------------------------------|--------------------------------|
| 1936 John Frederick McNichol | 1938 George Malcolm Brown |
| 1937 Borden Chamberlain Miller | 1939 Timothy William McParland |

ONTARIO MEDICAL ASSOCIATION PRIZE IN PREVENTIVE MEDICINE

- | | |
|--------------------------------|--------------------------------|
| 1936 Robert Reginald Patterson | 1939 Timothy William McParland |
| 1937 Melville Swartz | and Harry LeRoy Thoman |
| 1938 Ernest Anderson Johnson | (equal). |

PROFESSOR'S PRIZE IN MEDICINE AND CLINICAL MEDICINE

- | | |
|-----------------------------|-------------------------|
| 1936 Thomas Neil Tweddell | 1938 John William Ewen |
| 1937 John Wallace McDougall | 1939 James Ralph Clark. |

PROFESSOR'S PRIZE FOR THE BEST SERIES OF PATHOLOGICAL CASES

- | | |
|---------------------------|---------------------------------|
| 1936 Thomas Neil Tweddell | 1938 John Forde Anthony McManus |
| 1937 Harry Victor Morris | Maurice C. Dinberg |
| Frank Stephen Clarke and | Marshall Murray Gowland |
| Ross Morrison McCullough | 1939 Arthur Goodwin Macdonald, |
| | Timothy William McParland |

THE D. T. SMITH PRIZE IN PHARMACOLOGY

- | | |
|------------------------------|----------------------------|
| 1936 Hugh Grant Skinner | 1938 Howard Garfield Kelly |
| 1937 Charles William Elliott | 1939 Charles Wendell Kelly |
| Danby | |

PROFESSOR'S PRIZE IN SURGERY AND CLINICAL SURGERY

- | | |
|--------------------------|-----------------------------|
| 1936 James Boyd Roberts | 1938 James Stuart Young |
| 1937 Harry Victor Morris | 1939 John Leonard Johnston. |

PROFESSOR'S PRIZE IN PREVENTIVE MEDICINE

- | | |
|---------------------------------|----------------------------------|
| 1934 Henry James Tweddell and | 1937 Ernest Anderson Johnson and |
| Philip Bernstein (equal) | Austin Edward Smith |
| 1935 Richard Reginald Patterson | |

SYLVANUS JOY SCHOLARSHIP IN MATERIA MEDICA

- | | |
|--------------------------------|-----------------------|
| 1936 Harry Albert Lyle Murphy | 1938 Herman Sobol |
| 1937 Timothy William McParland | 1939 Philip Goldstein |

B. T. MCGHIE SCHOLARSHIP IN PSYCHOPATHOLOGY

- | | |
|--------------------------------|-------------------------------|
| 1936 Borden Chamberlain Miller | 1938 Donald Cameron MacDonald |
| 1937 Ernest Anderson Johnson | 1939 Howard Garfield Kelly |

JOHN FRANKLIN KIDD ESSAY PRIZE

- | | |
|---|--|
| 1936 (1) John Frederick McNichol and Joseph Edward Zbar (equal) | |
| (2) Harry Victor Morris | |
| 1937 (1) Joseph Forde Anthony McManus | |
| (2) Harry Victor Morris | |
| 1938 (1) John Forde Anthony McManus | |
| (2) Donald Cameron MacDonald | |
| 1939 (1) Donald Cameron MacDonald | |
| (2) George Frederick Aborn Kipkie | |

SIR JOHN C. SCHULTZ MEMORIAL SCHOLARSHIP

- | | |
|---------------------------|----------------------------|
| 1936 Edward Douglas Rooke | 1938 No award |
| 1937 George Malcolm Brown | 1939 Howard Garfield Kelly |

VICTOR LYALL GOODWILL MEMORIAL PRIZE

- | | |
|-----------------------------|---------------------------|
| 1937 James Harold Shaw | 1939 George Ducolon Scott |
| 1938 Harold Russell Langdon | |

VICTOR LYALL GOODWILL MEMORIAL SCHOLARSHIP IN INTERNAL
MEDICINE

- | | |
|------------------------|----------------------------|
| 1938 James Ralph Clark | 1939 Howard Garfield Kelly |
|------------------------|----------------------------|

STUDENTS IN ATTENDANCE

SIXTH YEAR

William Amodeo	Kingston, Ont.
Bruce Falconer Anderson	Kingston, Ont.
Sidney Ray Arber	Tweed, Ont.
John Wilmer Browning Barr	Lanark, Ont.
Cyril Kenneth Benson	King, Ont.
Barney Bernstein	Cochrane, Ont.
Penu Peneff Chalykoff	Hearst, Ont.
David Wesley Clare	Port Credit, Ont.
Bernard Michael Connolly	Brockville, Ont.
James Joseph Cunningham	New York, N.Y.
Thomas Evans Currier	Ottawa, Ont.
Charles William Elliott Danby	Kingston, Ont.
Malcolm Dingwall	Kingston, Ont.
Frederick Clarence Dobie	Port Arthur, Ont.
John Douglas Empson	Cannifton, Ont.
Gladstone William Jacob Fiddes	Kingston, Ont.
Wilson Harlow Ford	Bear River, N.S.
Robert Alexander Fortye	Kingston, Ont.
Harry Lee Foster	Iroquois, Ont.
Norman Donald Garand	Kingston, Ont.
James Edward Gibson	Kingston, Ont.
Wellington Clifford Gibson	Detroit, Mich.
Neil Scott Gordon	Ottawa, Ont.
Cecil Pierce Green	Athens, Ont.
Joseph Greenblatt	Ottawa, Ont.
William Lloyd Grimshaw	Toronto, Ont.
Frederick Kenneth Guy	Kingston, Ont.
Herbert Lewis Handford	Renfrew, Ont.
Samuel Wilson Donald Hart	Napanee, Ont.
George Eugene Hayunga	Tuckahoe, N.Y.
Malcolm Beemer Hill	Waterford, Ont.
Robert Howard Holbrook	Hamilton, Ont.
Jack Garner Jenkins	Haileybury, Ont.
Howard Garfield Kelly	Kingston, Ont.
Francis Eldon Kinsey	Niagara Falls, Ont.
Robert Joseph Livesey	Kingston, Ont.
Edwin Malcolm McLean	Harrow, Ont.
Franklin Tweedie Miles	Belleville, Ont.
John Kitchener Moss	Dundas, Ont.
Carman Benjamin Munro	Carleton Place, Ont.
John Omar Patton	Ottawa, Ont.
John Power Pearce	Pictou, Ont.

Arthur Francis Whittaker Peart	Westboro, Ont.
Robert Leslie Reeves	Eganville, Ont.
Joseph Angus Robertson	Campbellford, Ont.
Paul Scriven Rutherford	Fort Erie, Ont.
Edgar Clifford Scharf	Kingston, Ont.
Nathan Shklov	The Pas, Manitoba
Raleigh Dickson Smith	New Glasgow, N.S.
Samuel Smolkin	Almonte, Ont.
Herman Sobol	Newark, N.J.
William Lloyd Teskey	Sarnia, Ont.
Don Wendell Whyte	Kingston, Ont.
Eric Albert Willis	Seeley's Bay, Ont.
John Robert Wilson	Peterboro, Ont.
Bruce Harold Young	Strathroy, Ont.
Garnet White Zealand	Lindsay, Ont.
Arthur David Zuckerman	Toronto, Ont.

FIFTH YEAR

Charles Agro	Hamilton, Ont.
Russel John Alexander	Iroquois Falls, Ont.
Charles David Baird	Blenheim, Ont.
George Lester Bateman	Parham, Ont.
Grant Colville Beacock	Chapleau, Ont.
John Maitland Brewster	Owen Sound, Ont.
Wilmer Mason Byers	Metcalfe, Ont.
Abraham Philip Carlinsky	Montreal, Que.
George Thompson Carson	Ottawa, Ont.
Lloyd Albert Caswell	Kingston, Ont.
Jack Wilson Clark	Bethany, Ont.
Richard Street Duggan	St. David's, Ont.
Matthew Bulloch Dymond	Toronto, Ont.
Charles Franklin Egan	High Prairie, Alta.
Douglas McLaren Ewart	Regina, Sask.
Renato John Fassina	Port Arthur, Ont.
Benjamin Finkelstein	Brantford, Ont.
William Jackson Flay	Ottawa, Ont.
John Donald Forde	Smith's Falls, Ont.
Philip Goldstein	Prince Albert, Sask.
William Sinclair Harper	Toronto, Ont.
John Edward Hill	St. Catharines, Ont.
Charles Frederick Hyndman	Charlottetown, P.E.I.
Edwin Charles Hoodless	Hamilton, Ont.
Charles Wendell Kelly	Hartland, N.B.
William Thomas Kendall	Kingston, Ont.
Francis Graham Knoll	Saint John, N.B.
Jack Wilfred Latimer	Seeley's Bay, Ont.

William Alexander Leslie McDonald	Lancaster, Ont.
Hubert Francis MacInnis	Souris, P.E.I.
Andrew Thomas Mackie	Pembroke, Ont.
Angus Alexander MacMillan	Ottawa, Ont.
John Francis Maloney	New York, N.Y.
Arthur Hugh Megill	Ottawa, Ont.
James Charles Millar	Renfrew, Ont.
Donald Malcolm Dunn Murphy	Kingston, Ont.
John Watson Pickering	Blenheim, Ont.
John Wells Rogers	Port Sandfield, Muskoka, Ont.
James Russell Scott	Burlington, Ont.
James Small	Toronto, Ont.
John James Stanton	Mulgrave, N.S.
John Andrew Thomson	Kingston, Ont.
Howard Graham Weaver	Trenton, Ont.
Robert John Wilson	Hamilton, Ont.
Frank Malcolm Young	Seeley's Bay, Ont.

FOURTH YEAR

Philip James Bailey	Toronto, Ont.
Russell Gordon Bateman	Thomasburg, Ont.
John Allen Beggs	Westboro, Ont.
Norman Sidney Bowers	Kingston, Ont.
Hudson MacMillan Campbell	Elgin, Ont.
Desmond Hampden Dixon	Winchester, Ont.
James Donald Gibson	Kingston, Ont.
Arnold Frederick Hare	Regina, Sask.
Smith Richard Roberts Hoag	Niagara Falls, Ont.
John Joseph Hogan	Smith's Falls, Ont.
Donald Robert Johnston	Kingston, Ont.
Grant McDonald Johnston	Kingston, Ont.
Norman Anthony Karam	Cochrane, Ont.
Robert Norman Killingbeck	Peterborough, Ont.
Douglas Thomas Law	Ottawa, Ont.
William Burns Law	Ottawa, Ont.
Edgar Wilfred Lidington	Ottawa, Ont.
James Ross Loudoun	Guelph, Ont.
Robert Weir McIntyre	St. Mary's, Ont.
Chester Raymond McLean	Moose Jaw, Sask.
William Henry Merrilees	Westport, Ont.
Albert Edward Miles	Belleville, Ont.
Lorne Isaac Mitchell	Warkworth, Ont.
Godfrey George Smith Moulds	Ottawa, Ont.
Louis John Mulvihill	Ottawa, Ont.
Norman Edgar Murtaugh	Iroquois Falls, Ont.
Arthur Charles Odell	Belleville, Ont.

John Clifford Parry	London, Ont.
Leonard Joseph Patterson	Kingston, Ont.
John Andrew Douglas Paul	Rouleau, Sask.
Harold Jackson Pickup	Fort William, Ont.
Clarence Edward Robinson	Pembroke, Ont.
Leland Clare Shaw	Belleville, Ont.
Herbert Lyal Stevenson	Kent Bridge, Ont.
George Keith Stillwell	Regina, Sask.
Gordon Irvine Theal	Grimsby, Ont.
Merrill Cannon Trotter	Collingwood, Ont.
Max Joseph Vogel	Saskatoon, Sask.
Morley Alvin Weaver	Burlington, Ont.
Norval Ludlow Williamson	New Liskeard, Ont.
John Campbell Sinclair Wilson	Port Colborne, Ont.
Edward George Young	Chapleau, Ont.

THIRD YEAR

Emile Joseph Philip Badre	Winnipeg, Man.
William Alexander Baker	Keewatin, Ont.
Irwin Wesley Bean	Regina, Sask.
Lloyd Stanley Bower	Hamilton, Ont.
Albert Belmont Brown	Kingston, Ont.
William Elmer Burns	Brockville, Ont.
Maurice William Chepesiuk	Kingston, Ont.
Kenneth Scott Clarke	Kingston, Ont.
Walter John Cole	Ottawa, Ont.
Patrick Trevor Coulter	Chatham, Ont.
Charles Edward Allen Cragg	Peterborough, Ont.
Arthur Vernon Craig	Camrose, Alta.
Roderick William Dingwall	Kingston, Ont.
Harold Wallace Dunlop	Kingston, Ont.
Charles Robert MacLachlan Eaid	Sault Ste. Marie, Ont.
Murray Logan Edgar	Regina, Sask.
Victor Franklin	Britannia Bay, Ont.
John Taylor Montague Fraser	Ottawa, Ont.
Alan Seymore Percy Gordon	Ottawa, Ont.
Ormond Richard Green	Soperton, Ont.
Jack Hawkins Hare	Newcastle, Ont.
Ian Stuart Houston Harper	Toronto, Ont.
Angus McIntyre Hood	Toronto, Ont.
Donald Ezra Hubbell	Thamesville, Ont.
Eric Eldred Johnston	Minesing, Ont.
Thomas Paul Leadman	Ottawa, Ont.
Bow-kwong Lee	Victoria, B.C.
William Laurie Leslie	Sault Ste. Marie, Ont.

Hubert Haig Lloyd	Chesterville, Ont.
Robert Lee McFadden	Winnipeg, Man.
John Banford Ralph McKendry	Winchester, Ont.
Macey Milner	Vegreville, Alta.
Laurence Neil O'Connor	Kingston, Ont.
Murray Edmund Oliver	Saskatoon, Sask.
Frank George Palanek	Turnerville, Ont.
André Fernand Pasquet	Kingston, Ont.
Peter Brady Percheson	Fort William, Ont.
Arlo Leonard Pitcher	Belleville, Ont.
John Seldon Pratten	Peterborough, Ont.
Clifton Archie Richardson	Woodroffe, Ont.
Cecil Ernest Gordon Robinson	Pembroke, Ont.
Benjamin Henry Scott	Longueuil, Que.
Lambert Patrick Teevens	Ottawa, Ont.
William Gerald Watts	Port McNicoll, Ont.
Warren Wilson Joseph Wilkins	Cobourg, Ont.
William Adam Young	Kingston, Ont.

SECOND YEAR

Lawrence Edward Avery	Grenfell, Sask.
Maitland Baldwin	Concord, Mass.
Herbert Gerald Barton	Schreiber, Ont.
John Kyle Beach	Finch, Ont.
James Maitland Brewster	Owen Sound, Ont.
Douglas James Broadwell	Windsor, Ont.
Douglas Wright Cockburn	Ottawa, Ont.
Ronald Allan Dolan	Regina, Sask.
James Joseph Doyle	Prescott, Ont.
Robert Arthur Paul Fleming	New Liskeard, Ont.
David Harold Merritt Hall	Kingston, Ont.
Mortimer Harris	Montreal, Que.
James Stuart Hitsman	Kingston, Ont.
Frederick FitzGerald Howatt	Charlottetown, P.E.I.
Isaac Stanley Kaleal	Saskatoon, Sask.
Charles Graham Kee	Fair Vale Station, N.B.
William Henry Kindrachuk	Cudworth, Sask.
James Eldon Kerr Leach	Manotick, Ont.
Bernard Lewis	Montreal, Que.
William Hugh McClenahan	Ottawa, Ont.
James Roland McCorriston	Ridgedale, Sask.
James Albert McDougall	Brockville, Ont.
John Munro Mackenzie	Oliver, B.C.
Donald Douglas McKercher	Ottawa, Ont.
Thomas Allan McLellan	Kirkland Lake, Ont.

John Alfred Markey	Kingston, Ont.
Donald Butler Maunsell	Cardinal, Ont.
William James Spencer Melvin	Kingston, Ont.
Alexander Moffat	Newburgh, Ont.
Abraham Charles Movshovitz	Carleton Place, Ont.
William Arthur Oatway	Smith's Falls, Ont.
Randolph James Patterson	Prescott, Ont.
Edward Benjamin Paul	Odessa, Ont.
Godfrey Maxwell Paul	Napanee, Ont.
Joseph Antony Pidutti	Portsmouth, Ont.
Peter Ferris Playfair	Ottawa, Ont.
William Alexander Prowse	Toronto, Ont.
Carl John Reich	Prince Rupert, B.C.
Clayton L. Nelson Robinson	Pembroke, Ont.
Eric Phippen Sutherland	Freelton, Ont.
William Peter Teevens	Pembroke, Ont.
Benjamin Reid Townsley	Ingersoll, Ont.
Claude Hibbert Vipond	Ottawa, Ont.
William Ward Wigle	Dryden, Ont.
Omar Xavier Younghusband	Smith's Falls, Ont.

FIRST YEAR

Howard Arthur Barends	Kingston, Ont.
William Arthur Douglas Blair	Perth, Ont.
Ernest Alfred Boxall	Ladner, B.C.
Evan Guthrie Cameron	Ottawa, Ont.
George Clifford Clark	Ottawa, Ont.
Kenneth Lloyd Clark	Owen Sound, Ont.
James Maurice Cornell	Fort William, Ont.
Thomas John Earl	Athens, Ont.
Robert Charles Elliott	Hamilton, Ont.
William Frederick Fisher	Hamilton, Ont.
Raymond Nelson Foxgord	Victoria, B.C.
James Bruce Galloway	Newton, Mass.
Hugh Erwin Gastle	Milton West, Ont.
Jack Allenby Hay	Foxwarren, Man.
Harold Jones	Kingston, Ont.
Albert Edward Keates	South Porcupine, Ont.
Robert Hillyard Lockwood	Toronto, Ont.
William Robert Love	Hamilton, Ont.
James Shore Loynes	Kingston, Ont.
John Steacy McCarley	North Vancouver, B.C.
Russell Gordon McKendry	Melfort, Sask.
Donald Gay McMullen	Trenton, Ont.
James Ian McNeill	St. John's, Nfld.

John Bateman McQuay	Mindemoya, Ont.
Norman William McQuay	Whitby, Ont.
David Albert Mady	Garson Mine, Ont.
Morgan Graham Martin	Hamilton, Ont.
Donald Campbell Montgomery	Ottawa, Ont.
Wilmot Stuart Patterson	Kingston, Ont.
Vere Herbert Pitcher	Belleville, Ont.
John Norman Poyser	Vankleek Hill, Ont.
Russell Edwin David Ratcliffe	Kingston, Ont.
Gilbert Ryerson Richmond	Hamilton, Ont.
Jack Edward Ross	Vancouver, B.C.
Ian MacIntosh Shaw	Kingston, Ont.
Joseph Sochowski	Wolseley, Sask.
Howard Douglas Steele	Arnprior, Ont.
Orde Burr Ward	Picton, Ont.
James Anderson Whillans	Ottawa, Ont.
Norman Jack Bridgeman Wiggin	Ottawa, Ont.
Donald Laurence Wilson	Hamilton, Ont.
Hugh Vernon Young	Moose Jaw, Sask.

SESSION 1939-1940

Sixth Year	58
Fifth Year	45
Fourth Year	42
Third Year	46
Second Year	45
First Year	42

Total..... 278

